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ABSTRACT

Descriptions of over 300 courses offered during 1978-1979 at the two-year Fayette Campus of Pennsylvania State University are provided as a means of assisting students and academic advisors during preregistration. The course guide was designed for the second stage of academic advising during which courses are scheduled for each term, short- and long-range academic plans are developed, academic and career goals are clarified, and the diverse services available to students are enumerated. In the guide, course titles are arranged alphabetically and individual entries include: (1) the professor's name, (2) his/her office hours per week, (3) enrollment characteristics, (4) a description of the course theme, (5) required texts, (6) typical weekly assignments, (7) a description of exams, (8) required papers, (9) other course requirements, (10) grading philosophy, (11) tentative schedule, (12) prerequisites. Attached to the document is a questionnaire that was filled out by the instructors to provide the information necessary for the compilation of the course guide. (JP)

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Fayette Campus Course Guide

Doris W. Coldren, Ed.

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JC 790 421

The Pennsylvania State University
Uniontown, Pennsylvania
1978

The 1978-79 edition of THE FAYETTE COURSE GUIDE - the fourth consecutive edition - has been developed to assist the student and the academic adviser in preregistration by providing descriptive information pertaining to more than 300 courses which are taught at the Fayette Campus of The Pennsylvania State University. By design, THE FAYETTE COURSE GUIDE is most helpful during the second stage of academic advising - that advising which occurs after students participate in the University's Freshman Testing, Counseling and Advising Program, a program administered the summer prior to initial enrollment at the Fayette Campus.

The second stage of academic advising encompasses the following activities: course scheduling each term, short and long-range academic planning, the clarification of academic and career goals, and the utilization of the diverse services available to students. For the returning student, THE FAYETTE COURSE GUIDE updates much of the information presented in the 1977-78 edition of the Course Guide and provides additional descriptions of courses offered at the campus. For the entering freshman, THE FAYETTE COURSE GUIDE introduces the wealth of academic experiences available at the Fayette Campus.

The existence of THE FAYETTE COURSE GUIDE is due to the endorsement of the Faculty Senate and its past chairperson, Mrs. Joanne Baugh. The assistance of Mr. Paul Agate, chairperson of the Student Affairs Committee, is appreciated for collecting the information. A special note of appreciation is extended to Mrs. Doris Coldren, current chairperson of the Fayette Faculty Senate, for her outstanding efforts as editor of the Course Guide. My gratitude is also extended to all individuals who assisted in organizing, typing, and duplicating the Course Guide.

E. Daniel Kapraun, Jr.

E. Daniel Kapraun, Jr., Coordinator
Division of Undergraduate Studies &
Academic Advisement

PLEASE TYPE OR PRINT

COURSE GUIDE QUESTIONNAIRE

The Pennsylvania State University
Fayette Campus

COURSE AND NUMBER ______________________ Title of Course ______________________
(Example: Engl. 10) (according to PSU catalog) Ex: Composition and Rhetoric I

1. PROFESSOR'S FULL NAME ______________________________________
(If name unknown indicate typical rank)

Office Hours Per Week: ________

2. COURSE FORMAT: ____lectures ____discussions ____labs ____other

3. ENROLLMENT: How many students are typically enrolled in a course section?______

Are they predominantly ____majors? ____non-majors? ____mixed?

4. THEME OF COURSE: Which elements of the subject matter receive special emphasis? What should the interested student hope to gain from the course? (35-40 words)

____

____

____

____

____

____

5. REQUIRED TEXTS: Please list. (Ex. Money by Ritter and Silber)

1. ____
2. ____
3. ____
4. ____
5. ____

6. TYPICAL WEEKLY ASSIGNMENTS: On the average, how many pages of reading are assigned weekly? _____ Are such exercises as problem sets, lab reports, etc., required? If so, how frequently?

____

____

7. EXAMS: Are there midterm examinations? ___Yes ___No If yes, how many? _______

Is there a final examination? ___Yes ___No

If yes, is it comprehensive? ___Yes ___No

Are there any other tests or quizzes planned? ___Yes ___No If yes, please explain their nature and frequency? _______________________

8. PAPERS: Will the students be required to write any papers? ___Yes ___No
If yes, how many? _____ Approximate length of each? _____
Please comment about paper topics, format, and content requirements.

____

____

9. ANY OTHER COURSE REQUIREMENTS? (projects, speeches, field trips, etc.)

____

____

10. GRADING PHILOSOPHY: Please describe. On what basis is the student's performance judged? What percentage of his final grade is determined by the midterm, final examination, papers, class participation, attendance, etc.?

____

____

____

____

____

11. TENTATIVELY SCHEDULED FOR: Fall _____ Winter _____ Spring _____ Summer _____
(1978-79 academic year)

12. PREREQUISITE: ___Yes ___No If yes, please list (according to University catalog)

____

Are there any local prerequisites? _______________________

____

ACCOUNTING 101: INTRODUCTORY FINANCIAL ACCOUNTING

PROFESSOR: Donald L. Leaphart. Office hours per week: 3.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 40-45 majors. THEME OF COURSE: Basic accounting techniques as they apply to corporations. Emphasis placed on collection, recording, summarization, and interpretation of data. REQUIRED TEXTS: Principles of Financial Accounting by Finney & Miller and Accounting in Action by Willingham & Malcom. TYPICAL WEEKLY ASSIGNMENTS: 20-25 pages of reading and 2-4 problems. EXAMS AND PAPERS: 2 exams and a non-comprehensive final. Completion of the Accounting Simulation and paper on results. GRADING PHILOSOPHY: Grade will be determined from scores on 3 examinations and homework problems. TENTATIVELY SCHEDULED FOR: Fall Term.

ACCOUNTING 102: INTRODUCTORY MANAGERIAL ACCOUNTING

PROFESSOR: Donald L. Leaphart. Office hours per week: 3.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 30-35 majors. THEME OF COURSE: Basic cost accounting--actual and standard cost systems, managerial use of accounting data for decision making. REQUIRED TEXT: Managerial Accounting by DeCorter and Schaffer. TYPICAL WEEKLY ASSIGNMENTS: 20-25 pages of reading and 2-4 problems. EXAMS: 2 exams and a non-comprehensive final. GRADING PHILOSOPHY: Exams and homework determine grade. Class participation can improve grade. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Acctg. 101.

ACCOUNTING 201: INTERMEDIATE ACCOUNTING 1

PROFESSOR: Donald L. Leaphart. Office hours per week: 3.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 20 majors. THEME OF COURSE: To familiarize student with current practice in asset valuation and income determination and to become aware of shortcomings of current practice related to accounting theory and accounting in general. REQUIRED TEXT: Intermediate Accounting by Welch, Zhatkovich, Wite. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading and problems. EXAMS: 2 midterms, a non-comprehensive final, quizzes. GRADING PHILOSOPHY: Grade based on total points earned on tests and quizzes. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Acctg. 102.

ACCOUNTING 801: INTRODUCTORY ACCOUNTING

PROFESSOR: Donald L. Leaphart. Office hours per week: 3.

COURSE FORMAT: Lectures and lab. ENROLLMENT: 45 majors. THEME OF COURSE: Basic principles of accounting as they apply to the single proprietor. Emphasis is based on record keeping and analysis. REQUIRED TEXTS: Accounting Principles (12th Ed.) by Niswonger & Fess and Working Papers - Chapters 1-14. TYPICAL WEEKLY ASSIGNMENTS: 30-35 pages of reading and 2-4 problems. Cassette tapes in library. EXAMS: 3 exams and a non-comprehensive final. GRADING PHILOSOPHY: Scores on exams and homework will determine final grade. TENTATIVELY SCHEDULED FOR: Fall Term.

ACCOUNTING 802: INTRODUCTORY ACCOUNTING

PROFESSOR: Donald L. Leaphart. Office hours per week: 3.

COURSE FORMAT: Discussions and labs. ENROLLMENT: 30-35 majors. THEME OF COURSE: Basic accounting techniques as they apply to partnerships and corporations and, also, introduction of other areas of accounting (i.e. taxes, cost accounting). REQUIRED TEXTS: Accounting Principles (12th Ed.) Niswonger & Fess and Working Papers - Chapters 15-28. TYPICAL WEEKLY ASSIGNMENTS: 30-35 pages of reading and 2-4 problems. EXAMS: 3 exams and a non-comprehensive final. GRADING PHILOSOPHY: Final grade based on scores of exams and homework. Class discussion can improve grade. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Acctg. 801.

ACCOUNTING 806: FEDERAL TAX ACCOUNTING

PROFESSOR: Donald L. Leaphart. Office hours per week: 3.

COURSE FORMAT: Lectures, discussions, and labs. ENROLLMENT: 20 majors. THEME OF COURSE: Emphasis placed on individual federal income taxes. REQUIRED TEXTS: Federal Tax Course (current year) by Commerce Clearing House and Fundamentals of Tax Preparation by Internal Revenue Service. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading and problem solving in every session. EXAMS: 2 exams, a comprehensive final, and a minimum of 4 quizzes. GRADUING PHILOSOPHY: Grade based on total points earned on exams and quizzes. TENTATIVELY SCHEDULED FOR: Spring Term - 1980. PREREQUISITE: Acctg. 802.

ACCOUNTING 807: MANAGERIAL ACCOUNTING

PROFESSOR: Donald L. Leaphart. Office hours per week: 3.

COURSE FORMAT: Discussions and labs. ENROLLMENT: 30-35 majors. THEME OF COURSE: Cost and budgetary control; preparation of information for decision making. REQUIRED TEXT: Cost Accounting: Managerial Emphasis by Charles T. Horngren. TYPICAL WEEKLY ASSIGNMENTS: 20-25 pages of reading and 2-4 problems. EXAMS: 2 exams and a non-comprehensive final. GRADING PHILOSOPHY: Three exams and homework determine grade. Class participation can improve grade. TENTATIVELY SCHEDULED FOR: Spring Term-1979. PREREQUISITE: Acctg. 802.

ANTHROPOLOGY 1: INTRODUCTORY ANTHROPOLOGY

PROFESSOR: Dr. Eliot Singer. Office hours per week: 6.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 35 non-majors. THEME OF COURSE: The course asks the question, What is a human being? To answer this question takes various attributes that are considered universal for humans, including physical features, society, and incest taboo, kinship, religion, language, and art. These attributes are considered in terms of human evolution. REQUIRED TEXT: People, Nature, Culture by Marvin Harris. TYPICAL WEEKLY ASSIGNMENTS: 60 pages of reading. EXAMS AND PAPERS: A comprehensive take-home final and 4 half-hour quizzes (one every 2 1/2 weeks). A 5-page review of an ethnography of another culture. GRADING PHILOSOPHY: Total on three quizzes (The lowest grade is dropped.), paper, and final are each worth one-third of grade. TENTATIVELY SCHEDULED FOR: Fall Term.

ANTHROPOLOGY 45: CULTURAL ANTHROPOLOGY

PROFESSOR: Dr. Eliot Singer. Office hours per week: 6.

COURSE FORMAT: Discussions. ENROLLMENT: 35 non-majors. THEME OF COURSE: The course will focus on the concept of culture as shared, learned, patterned human behavior. The object will be to understand that other cultures make sense on their own terms. This will be achieved by reading and discussing ethnography of other cultures. REQUIRED TEXTS: Patterns of Culture by Ruth Benedics, A Separate Reality by Carlos Castenada, The Forest People by Colin Turnbull, The Death and Rebirth of the Seneca by A.F.C. Wallace, Argonauts of the Western Pacific by B. Malinowski, and The Nuet by E. Evans-Pritchard. TYPICAL WEEKLY ASSIGNMENTS: 200 pages of relatively easy reading. EXAMS AND PAPERS: No exams. Students will be required to keep a weekly notebook on their thoughts and comments from the readings of that week. Each student will be responsible for reading the discussion on one of the books. GRADING PHILOSOPHY: One-third of final grade will be determined from class discussion, book presentation, and notebook. TENTATIVELY SCHEDULED FOR: Winter Term.

ART 110: DESIGN: COLOR AND LIGHT

PROFESSOR: Zeljko Kujundzic.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 10-20 majors or non-majors. THEME OF COURSE: Lectures, theoretical and practical, and experimental lab work in the fundamentals of color. MATERIALS NEEDED: Notebook, sketch book (minimum size 12" x 18"), pencils, India ink, water colors, and designated textbook. TYPICAL WEEKLY ASSIGNMENT: 1-2 lab reports. GRADING PHILOSOPHY: Final grade is based upon an evaluation of the drawings or designs dealing with the specifics of color theory and in the direct sensory experimentation contained in the course. Students are required to attend all classes. TENTATIVELY SCHEDULED FOR: Fall Term and Spring Term.

ART 111: DESIGN: THREE-DIMENSIONAL

PROFESSOR: Zeljko Kujundzic.

COURSE FORMAT: Studio classes, audio-visual lectures, and discussions. ENROLLMENT: 20 majors and non-majors. THEME OF COURSE: Introduction to design in three-dimensions. Principles of visual organization in working with actual space and volume. MATERIALS NEEDED: Notebook, sketch book (minimum size 12" x 18"), pencil, India ink, water colors, and designated textbook. EXAMS: Approximately 10-12 drawings or design projects are required. An End-of-Term exhibit is mandatory. GRADING PHILOSOPHY: Final grade will be based upon the evaluations made by individual consultations and group critiques. Students are required to attend all classes. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Art 110 or proof of ability.

ART 112: DESIGN: TWO-DIMENSIONAL

PROFESSOR: Zeljko Kujundzic.

COURSE FORMAT: Studio classes, audio-visual lectures, and discussions. ENROLLMENT: 20 majors and non-majors. THEME OF COURSE: The fundamental understanding of our visual world dealing primarily with two-dimensional or pictorial space as it relates to the flat surface. MATERIALS NEEDED: Notebook, sketch book (minimum size 12" x 18"), pencil, India ink, water colors, and designated textbook. EXAMS: Approximately 10-12 design projects are required. End-of-Term exhibit is mandatory. GRADING PHILOSOPHY: Evaluation will be made by individual consultations and group critiques. There is a certain level of excellence required as this is an intermediate course. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Art 111 or proof of ability.

ART 120: INTRODUCTION TO DRAWING

PROFESSOR: Zeljko Kujundzic.

COURSE FORMAT: The lecture portion of the course deals with the interrelation of all of the visual arts and reveals drawing to be the primary discipline for those who paint, sculpt, design, make prints, or do ceramics. The studio portion of the course exposes the student to the basic use of materials and techniques, as well as the intellectual possibilities of drawing. ENROLLMENT: 20 majors and non-majors. First of a series of structured courses for students who intend to make art a profession. MATERIALS NEEDED: Notebook, sketch book (minimum size 12" x 18"), pencil, India ink, water colors, and textbook - The Natural Way to Draw by Nicholides. EXAMS: Approximately 10-12 drawings are required. End-of-Term exhibit is mandatory. GRADING PHILOSOPHY: The student will be expected to perform as an artist on a basic communicative level; the degree of success will be established by relating student work to established examples of works of art. Students are required to attend all classes. TENTATIVELY SCHEDULED FOR: Fall Term.

ART 121A: TECHNIQUES FOR DRAWING

PROFESSOR: Zeljko Kujundzic.

COURSE FORMAT: Practice and familiarity with drawing. ENROLLMENT: 20 majors and non-majors. Required for all art majors. THEME OF COURSE: Drawing with emphasis upon observation, organization, and particular emphasis on the development of skills. MATERIALS NEEDED: Notebook, sketch book (minimum size 12" x 18"), pencil, India ink, water colors, and designated textbook. EXAMS: Approximately 10-12 drawings are required. GRADING PHILOSOPHY: The competencies of the students will be assessed by evaluating their abilities to grasp accepted techniques of proportion and perspective, representing value and depth by using reality as a guide and relating their work to prototype problems. TENTATIVELY SCHEDULED FOR: a Winter Term option. PREREQUISITE: Art 120 or proof of ability.

ART 121B: MATERIALS AND TOOLS OF DRAWING

PROFESSOR: Zeljko Kujundzic.

COURSE FORMAT: Project work. ENROLLMENT: 20 majors and non-majors. Required for all art majors. THEME OF COURSE: Exploration and discovery, within the limitations of drawing materials by which a student can solve formal problems involving drawing as a communication tool. MATERIALS NEEDED: Notebook, sketch book (minimum size 12" x 18"), pencil, India ink, water colors, and designated textbook. EXAMS: Approximately 10-12 drawings are required. GRADING PHILOSOPHY: Competencies will be determined by how well, how readily the student uses materials in accomplishing tasks determined by looking at reality and recording things seen - translating objective reality into material terms. TENTATIVELY SCHDULED FOR: a Winter Term option. PREREQUISITE: Art 120 or proof of ability.

ART 122: APPROACHES TO DRAWING

PROFESSOR: Zeljko Kujundzic.

COURSE FORMAT: Project work. ENROLLMENT: 20 majors and non-majors. Required for all art majors. THEME OF COURSE: To use the technical and material aspects of drawing to communicate in-depth. MATERIALS NEEDED: Notebook, sketch book (minimum size 12" x 18"), pencil, India ink, water colors, and designated text. EXAMS: Approximately 10-12 drawings and still-life figure studies are required. The student is expected to keep a portfolio of work which indicates his progress and his individual approach to drawing. GRADING PHILOSOPHY: The grading is based on an evaluation of the drawings or drawing projects. There is a certain level of excellence required as this is an intermediate course. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Art 121 or proof of ability.

ART 180: CERAMIC ARTS

PROFESSOR: Zeljko Kujundzic.

COURSE FORMAT: Discussion, demonstration, labs, and project work. ENROLLMENT: 20 students, non-art majors. THEME OF COURSE: Introduction to potter's wheel techniques; experiments with decorative application; and inclusion of technical concerns for clay, glazes, and kiln-firing. The course deals primarily with pottery as a creative expression. TOOLS AND MATERIALS NEEDED: 2 feet of fine picture hanging wire, 2 washers or buttons, 1 plastic bucket with lid, 1 natural sponge (2 1/2"-3" in diameter), 1 modelling tool, 1 clean-up sponge (synthetic, 6" x 8" in diameter), 1 loop tool, 1 cutting pin, 4 pieces of plywood (6" square), 4 pieces of plywood (8" square), 1 apron or old shirt, old blue jeans. REQUIRED TEXT: Keramos by F. Kriwanek. TYPICAL WEEKLY ASSIGNMENT: 5-10 pages of reading. EXAMS: None. Evaluation of 6-10 projects. End-Of-Term exhibit mandatory. GRADING PHILOSOPHY: Grading is based on evaluation of 6-10 projects completed by the student. Class attendance and End-of-Term exhibit mandatory. There is no particular level of excellence required as this is a beginner's course. TENTATIVELY SCHEDULED FOR: Fall or Spring Term.

ART 280: INTRODUCTORY CERAMIC ARTS /

PROFESSOR: Zeljko Kujundzic. Office hours per week: 4.
Teaching Assistant: Assists in lab work and preparation of materials.

COURSE FORMAT: Labs and project work. ENROLLMENT: 20 students; majors and non-majors. May be audited. THEME OF COURSE: The fundamentals with ceramic materials and techniques. TOOLS AND MATERIALS NEEDED: 2 feet of fine picture hanging wire, 2 washers or buttons, 1 plastic bucket with lid, 1 natural sponge (2 1/2"-3" in diameter), 1 modelling tool, 1 clean-up sponge (synthetic, 6" x 8" in diameter), 1 loop tool, 1 cutting pin, 4 pieces of plywood (6"square), 4 pieces of plywood (8" square), 1 apron or old shirt, old blue jeans. REQUIRED TEXT: Ceramics by Nelson. TYPICAL WEEKLY ASSIGNMENT: 5-10 pages of reading. EXAMS: There are no exams. Evaluation of projects required. End-of-Term exhibit is mandatory. GRADING PHILOSOPHY: Grading is based on involvement, work habits, production, growth and individual development. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: 2 credits in studio art.

ART 380: CERAMIC ARTS

PROFESSOR: Zeljko Kujundzic. Office hours per: 4.
Teaching Assistant: Assists in lab work and preparation of materials.

COURSE FORMAT: Labs. ENROLLMENT: 20 majors and non-majors. May be audited. THEME OF COURSE: The techniques of ceramic construction and studies in clay and glaze formulation. TOOLS AND MATERIALS NEEDED: 2 feet of fine picture hanging wire, 2 washers or buttons, 1 plastic busket with lid, 1 natural sponge (2 1/2"-3" in diameter), make-up sponge, 1 clean-up sponge (synthetic, 6" x 8" in diameter), 1 modelling tool, 1 loop tool, 1 cutting pin, 4 pieces of plywood (6" square), 4 pieces of plywood (8" square), 4 pieces of plywood (12" square), 1 apron or old shirt, old blue jeans. REQUIRED TEXTS: The Potter's Book by Bernard Leach and Clay and Glazes for the Potter by Dan Rhodes. TYPICAL WEEKLY ASSIGNMENTS: 5-10 pages of reading. EXAMS: no exams, but midterm and final evaluation of 10-12 projects required. End-of-Term exhibit is mandatory. GRADING PHILOSOPHY: Grading is based on an evaluation of the projects. Students are required to attend all classes. There is no homework. All projects are expected to be completed during class time. Students participate in their own evaluation during the end of term grading. There is a level of excellence required as this is an intermediate course. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Art 280. This course may be repeated for a total of nine credits.

ART EDUCATION 3: THE VISUAL ARTS IN THE ELEMENTARY SCHOOLS

PROFESSOR: Gloria DePaolis.

COURSE FORMAT: Lecture, class discussion, lab. ENROLLMENT: Predominately elementary and art education majors. However, anyone working with children and their art is advised to take the course. THEME OF COURSE: Understanding children's art and symbols according to age level; teacher understanding of personal creativity and creativity in general; art education philosophy in the public school system; development of strategies in teaching art to children; and preparing instructional objectives. REQUIRED TEXTS: Creative and Mental Growth, Lowenfeld/Brittain 6th Ed.; Supplementary: Developing Artistic and Perceptual Awareness, Linderman/Herberholz; Preparing Instructional Objectives, Mager. EXAMS AND PAPERS: 3 exams, objective and essay quizzes, 1 in-depth paper. GRADING PHILOSOPHY: Students will be measured by class participation, panel discussions on research, analysis of films on children's art, exams, quizzes, and term paper. TENTATIVELY SCHEDULED FOR: Fall Term or Summer Term.

ART EDUCATION 14: INTRODUCTORY CRAFTS FOR TEACHERS

PROFESSOR: Gloria DePaolis.

COURSE FORMAT: Lecture, class discussion, lab. ENROLLMENT: Art Education majors and any classroom teacher or supervisor of crafts: playground, private, and public programs. THEME OF COURSE: Students will develop reinforcement and enrichment in their knowledge of art, crafts, and the creative process adapted from a sound philosophy for teaching crafts to children. Direct experiences with natural and man-made art media through exploration and experimentation will identify processes, craftmanship, and self-creativeness. REQUIRED TEXT: Meaning in Crafts, Mattil, 3rd Ed. Supplementary: Developing Artistic and Perceptual Awareness, Linderman/Herberholz, 3rd Ed. TYPICAL WEEKLY ASSIGNMENTS: Individual student selection per media explored as related to text chapter. EXAMS AND PAPERS: Quizzes on text chapters, constructive analysis of media processes, class research presentation, term paper. GRADING PHILOSOPHY: Students will be measured on craft and media process competencies, selected craft, teaching presentation, quizzes, and term paper. TENTATIVELY SCHEDULED FOR: Winter Term or Summer Term.

ART EDUCATION 105: DESIGN IN MATERIALS

PROFESSOR: Gloria DePaolis.

COURSE FORMAT: Lecture, lab, visual aids, field trip. ENROLLMENT: 15 students interested in beginning design and Art Education majors. THEME OF COURSE: Introductory elements of design: two-dimensional problems and analysis of line, form, texture, and color dealing with natural and man-made objects. Student participation in creative problem solving as consumers or producers of design. Variety of media used to express art principles of design. REQUIRED TEXT: Color and Design, Munsel 3rd Ed. Supplementary: Art: Search and Self-Discovery, Schinniller, 2nd Ed. TYPICAL WEEKLY ASSIGNMENT: Individual student work schedule. 10 problem evaluation: variation and theme on principles of design. GRADING PHILOSOPHY: Based upon students progress and creative development, critical analysis of design solutions, class evaluation. TENTATIVELY SCHEDULED FOR: Fall Term or Spring Term.

ART EDUCATION 106: DESIGN IN MATERIALS

PROFESSOR: Gloria DePaolis.

COURSE FORMAT: Lecture, lab, visual aids, field trip. ENROLLMENT: 15 students interested in advanced design and Art Education majors. THEME OF COURSE: Advanced approach to design elements: line, form, color, texture. Creative problem solving in three dimensional design. Student-centered program. REQUIRED TEXT: Design Through Discovery, Bevlin, 2nd Ed. Supplementary: Art: Search and Self-Discovery, Schinniller, 2nd Ed. TYPICAL WEEKLY ASSIGNMENTS: Individual student work scheduled, related to text reading. GRADING PHILOSOPHY: Based upon student progress and development, critical analysis of 10 design problems. Term in-depth design problem. TENTATIVELY SCHEDULED FOR: Winter Term or Spring Term.

ART EDUCATION 414: ADVANCED CRAFTS FOR TEACHERS

PROFESSOR: Gloria De Paolis.

COURSE FORMAT: Lecture, lab, research, visual aids, field trip. ENROLLMENT: 10 students. For any person or teacher who teaches crafts or wishes to have more knowledge of crafts, or additional state certification. THEME OF COURSE: Expanded study of craftsmanship and craftsman, past and present: increased experience with design and creative approach to crafts. REQUIRED TEXT: Meaning in Crafts, Mattil 3rd Ed. EXAMS AND PAPERS: Critical analysis of 5 art processes (crafts) ex. graphics, metal, weaving, etc. In-depth craft problem of student choice. GRADING PHILOSOPHY: Grades are determined by creative solutions to media problems defined in terms of design and craftsmanship, contracted in-depth research, class participation and group evaluation. TENTATIVELY SCHEDULED FOR: Spring Term or Summer Term. (Sixth term sophomores register through Continuing Education.)

ART HISTORY 100: INTRODUCTION TO ART

PROFESSOR: Gloria DePaolis.

COURSE FORMAT: Lecture, student class discussion, individual presentation. THEME OF COURSE: Critical analysis of selected works of architecture, painting, and sculpture. REQUIRED TEXT: Art in Perspective, Dorra. TYPICAL WEEKLY ASSIGNMENTS: Minimum 1 unit. EXAMS AND PAPERS: Quiz per unit, contracted term project, (class visual presentation). GRADING PHILOSOPHY: Class participation, quizzes, audio/visual presentation, field trip. TENTATIVELY SCHEDULED FOR: Winter Term or Spring Term. Students who have passed Art History 110 may not schedule this course.

ART HISTORY 110: SURVEY OF WESTERN ART

PROFESSOR: Gloria DePaolis.

COURSE FORMAT: Lecture, class visual analysis, student presentation, guest speaker, films, field trip. ENROLLMENT: This course satisfies a Humanities requirement, a program requirement, or an elective. THEME OF COURSE: General survey of major development in architecture, painting, and sculpture in the Western world: pre-historic to present. REQUIRED TEXT: The Purpose of Art by Elsen: selected reading from course bibliography. TYPICAL WEEKLY ASSIGNMENTS: Minimum 1 chapter. EXAMS AND PAPERS: Quiz per chapter, term project, individual class presentation. GRADING PHILOSOPHY: Class participation, quizzes: objective and essay, audio/visual presentation. TENTATIVELY SCHEDULED FOR: Fall Term or Spring Term. Students who have passed Art History 100 may not schedule this course.

ART HISTORY 307: AMERICAN ART

PROFESSOR: Gloria DePaolis.

COURSE FORMAT: Lecture, class visual discussion, student presentation, guest speaker, field trips, visuals. ENROLLMENT: Majors and non-majors. THEME OF COURSE: Students will identify the historical development of art in America through active observation, research, and panel discussions in the specific areas of architecture, community planning, crafts, painting, graphics, photography, and sculpture of the English colonies and the United States from the 17th century to present. REQUIRED TEXT: American Art: A Historical Survey by Green. TYPICAL WEEKLY ASSIGNMENTS: Minimum one chapter. EXAMS AND PAPERS: 5 quizzes, term project, a class presentation by each student. GRADING PHILOSOPHY: Class participation, quizzes: objective and essay, audio/visual presentation, field trip. TENTATIVELY SCHEDULED FOR: Spring Term or Summer Term.

ARTS 1: THE ARTS

PROFESSOR: Dr. Mary Lou Romanek.

COURSE FORMAT: Lectures, discussions, and videotapes of plays, films, and dance. THEME OF COURSE: Examines different ways of perceiving and relating the arts: painting, sculpture, music, film, theatre, and dance. EXAMS AND PAPERS: Two exams, a non-comprehensive final, and two papers, each approximately 800 words in length. Attendance at a play, an art exhibit, and a concert is required. GRADING PHILOSOPHY: Final grades are computed by standing in the class. TENTATIVELY SCHEDULED FOR: Fall Term and Spring Term.

BIOLOGICAL SCIENCE 2: EVOLUTIONARY RELATIONSHIPS OF ORGANISMS

PROFESSOR: Dr. Herbert Grossman. Office hours per week: 9.

COURSE FORMAT: Lectures and discussions. Films and outside speakers. Films and specimens are used to illustrate topics. ENROLLMENT: 35 students. THEME OF COURSE: Weeks 1-5: A survey of genetics (emphasizing human traits) and evolution. Weeks 6-10: Short reports will be presented by students on one group of animals or plants (student's choice), or on a recent popular topic such as cancer, venereal disease, acupuncture, drug abuse, etc. TYPICAL WEEKLY ASSIGNMENTS: Minimal reading assignments. EXAMS AND PAPERS: Midterm, final, quizzes and student reports. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITE: None. Primarily designed for non-science majors. (Students who have passed Biol. 11, 12, 13, 22, or 33 may not schedule this course.)

BIOLOGICAL SCIENCE 3: MAN AND HIS ENVIRONMENT

PROFESSOR: Dr. Herbert Grossman. Office hours per week: 9.

COURSE FORMAT: Lectures and discussions. Films and outside speakers; field trips, when possible. ENROLLMENT: 25 students. THEME OF COURSE: All areas of pollution (in relation to ecology) are covered: kinds of environments, past and present uses and abuses of natural resources, disposal of man's wastes, prospects for the future. REQUIRED TEXT: Subject to change. Check with bookstore or instructor before purchasing any materials. TYPICAL WEEKLY ASSIGNMENTS: Student and class project on some aspect of pollution. Student reports. Reading assignment will be one or two chapters in text each week. Classroom discussions. EXAMS: Quizzes, midterm, and final. GRADING PHILOSOPHY: Determined by classroom participation as well as reports, projects, and exams. The course is primarily designed for non-science majors. TENTATIVELY SCHEDULED FOR: Winter Term. (Students who have passed Biol. 210 or any other upper-level ecology course in biology may not schedule this course.)

BIOLOGICAL SCIENCE 4: BIOLOGY OF MAN

PROFESSOR: Dr. David R. Anderson. Office hours per week: 30.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 35-45 non-majors. THEME OF COURSE: (1) To arouse interest and stimulate curiosity relative to the structural design of the human body, and more importantly, how this design allows for optimal body function. (2) To impart an understanding as to how body design creates definable limits to tolerance which, if exceeded by internal or external stress, produce dysfunction in one or more of the body's systems. REQUIRED TEXT: Subject to change. Check with instructor before purchasing any materials. TYPICAL WEEKLY ASSIGNMENTS: Read appropriate chapters in text to follow discussion topics in lecture class. 1-2 chapters (approximately 30 pp.) EXAMS: 3 or more midterm exams, and 1 comprehensive final. GRADING PHILOSOPHY: Student's performance is judged on exam grades. The exams are weighed equally for final grade. TENTATIVELY SCHEDULED FOR: Spring Term. (Students who have passed Biology 29 and 41 cannot schedule this course.)

BIOLOGY 11: LIFE SCIENCE

PROFESSOR: Dr. David Anderson* and Dr. Herbert Grossman

COURSE FORMAT: Lectures and labs. ENROLLMENT: 24 students. This course is designed primarily for science majors, but it can be taken by non-majors who posses a high school science background. THEME OF COURSE: Weeks 1-5: The physical and chemical properties of organisms (carbohydrates, proteins, liquids, DNA, RNA, enzymes, osmosis, diffusion, respiration, photosynthesis) and a study of the cell. Weeks 6-10: Mitosis, meiosis, and an introduction to genetics with emphasis on human traits. TYPICAL WEEKLY ASSIGNMENTS: Minimal reading. A lab manual is mandatory. One lab topic is covered each week. REQUIRED TEXT: Subject to change. Check with bookstore or instructor before purchasing any materials. Biology 11 Lab Exercises, Therrien, et al. EXAMS: Midterm and final exam plus two major quizzes. Lab quizzes may be given depending on who teaches the course. TENTATIVELY SCHEDULED FOR: Fall Term. (Offering of course during Winter Term is determined by number of biology majors who were unable to take the course in the Fall Term.)

*Dr. David Anderson is on sabbatical leave until Winter Term.

BIOLOGY 12: BOTANY

PROFESSOR: Dr. Herbert Grossman. Office hours per week: By appointment.

COURSE FORMAT: Lectures and one two-period lab. ENROLLMENT: 25 students. Designed primarily for science majors, but it may be taken by non-majors with a strong high school science background. Cannot be taken by students who have had Biology 27. THEME OF COURSE: Weeks 1-5: The structure of roots, stems, and leaves; and the functions of these parts. This includes a study of hormones and growth movements, gas exchange, plant nutrients, soil and other related topics. Weeks 6-10: A survey of the entire plant kingdom with emphasis on form, reproduction and development, ecology, and economic importance. REQUIRED TEXTS: Lab Exercises in Botany by Purcell and Curry. TYPICAL WEEKLY ASSIGNMENTS: One chapter in textbook. One topic in lab manual. EXAMS AND PROJECTS: Midterm and final plus a few lab and lecture quizzes. Students grow their own plants and participate in short experiments of their own choosing. Usually one or two field trips and extra credit projects are encouraged. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Biology 11, which a student may take concurrently.

BIOLOGY 13: ZOOLOGY

PROFESSOR: Dr. David Anderson. Office hours per week: 20-25.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 24 majors and non-majors. THEME OF COURSE: History of animals to give student an understanding of the total animal kingdom. REQUIRED TEXTS AND MANUALS: Subject to change. Check with bookstore or instructor before purchasing any materials. TYPICAL WEEKLY ASSIGNMENTS: Read 1-2 chapters (covering lecture topics), lab assignments: text reading to complete the lab assignments. GRADING PHILOSOPHY: 2-3 exams on lecture materials and lab assignments make up grade. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Biol. 11.

BIOLOGY 14: SYSTEMATIC BOTANY

PROFESSOR: Dr. Herbert Grossman. Office hours per week: By appointment.

COURSE FORMAT: Two lectures and one two-period lab. Field trips and "keying out" plants in lab. THEME OF COURSE: Characteristics, distribution, and relationships of the vascular plants. Involves the collection and identification of higher plants. REQUIRED TEXT: Subject to change. Check with bookstore or instructor before purchasing any materials. TYPICAL WEEKLY ASSIGNMENTS: One chapter of textbook. Developing lab book for plant identification. EXAMS: Midterm and final deal with the identification of plants. TENTATIVELY SCHEDULED FOR: Spring Term or Summer Term. PREREQUISITE: Biology 12 or 27 (or permission of instructor).

BIOLOGY 27: THE PRINCIPLES OF BIOLOGY ILLUSTRATED WITH PLANT MATERIALS

PROFESSOR: Dr. Herbert Grossman. Office hours per week: By appiontment.

COURSE FORMAT: Two lectures and one two-period lab. ENROLLMENT: This course is designed for non-science majors. THEME OF COURSE: Same topics as Biology 12, but in a less comprehensive manner. In this course, more emphasis is placed on experiements, plant growing and field trips. Plant collections are encouraged. REQUIRED TEXT: Subject to change. TYPICAL WEEKLY ASSIGNMENTS: One chapter in textbook. One topic in lab manual. EXAMS: Midterm and final plus a few quizzes. TENTATIVELY SCHEDULED FOR: Spring Term or Summer Term. (Cannot be taken by students who have passed Biology 12.)

BIOLOGY 29: MAMALIAN ANATOMY

PROFESSOR: Dr. David Anderson.* Office hours per week: as many as needed.

COURSE FORMAT: Lectures and labs. ENROLLMENTS: 24 majors. THEME OF COURSE: Anatomy of all body systems--emphasis on the human. REQUIRED TEXTS: Subject to change. Check with bookstore or instructor before purchasing any materials. TYPICAL WEEKLY ASSIGNMENT: 20 textbook pages; lab manual varies. EXAMS: 8-9 midterm exams, 1 final. GRADING PHILOSOPHY: Exam grades are basic determination of grade. (Students who have passed Biol. 421 may not schedule this course.)

BIOLOGY 41: PHYSIOLOGY

PROFESSOR: Dr. David R. Anderson. Office hours per week: 30 plus.

COURSE FORMAT: Lectures. ENROLLMENT: 50 majors and non-majors. THEME OF COURSE: Normal functions of the animal body, with major emphasis on the human body systems. A complete understanding of how the human body functions. REQUIRED TEXTS: Subject to change. Check with bookstore or instructor before purchasing any materials. TYPICAL WEEKLY ASSIGNMENTS: Read in text as topics are covered in lecture class. EXAMS AND PAPERS: 3 or more exams, a comprehensive final, and paper(s). GRADING PHILOSOPHY: Student's performance is judged entirely on his exam grades. All exams are weighed equally. TENTATIVELY SCHEDULED FOR: Winter and Spring Terms. (Students who have passed Biol. 427 may not schedule this course.)

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*Dr. David. Anderson is on sabbatical leave until Winter Term.

BIOLOGY 42: PHYSIOLOGY LABORATORY

PROFESSOR: Dr. David R. Anderson. Office hours per week: 20.

COURSE FORMAT: Labs. ENROLLMENT: 10-12 majors. THEME OF COURSE: Experiments demonstrating basic physiological principles with special reference to man. Experimental techniques and apparatus used in physiology are utilized, and the student actually sees physiological phenomena. REQUIRED TEXT: Subject to change. Check with bookstore or instructor before purchasing any materials. TYPICAL WEEKLY ASSIGNMENTS: Read lab exercises and write up lab reports from previous week's experiment. PAPERS: 8-9 papers consisting of 2-3 pages (reports each week). GRADING PHILOSOPHY: If student participates in class and writes up lab experiment reports accurately and turns them in on time, the course requirements will have been completed. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE (or concurrent): Biol. 41.

BIOLOGY 220: PLANTS, PLACES, AND PEOPLE

PROFESSOR: Dr. Herbert Grossman. Office hours per week: By appointment.

COURSE FORMAT: Three lecture periods. This course may be taken as a biological science elective in some majors. THEME OF COURSE: A study of the historical, cultural, and economic aspects of botany. Topics include: how plants have been an important influence in man's history, plant products (including a section on drugs), poisonous, allergenic and other harmful plants, and the relationship of different plant groups and animals. REQUIRED TEXTS: Subject to change. Check with bookstore or instructor before purchasing any materials. TYPICAL WEEKLY ASSIGNMENTS: One chapter of textbook. EXAMS: Midterm and final. TENTATIVELY SCHEDULED FOR: Undecided. Strictly elective.

BIOLOGY 318: SPECIAL PROBLEMS AND RESEARCH

PROFESSOR: Dr. Herbert Grossman. Office hours per week: By appointment.

COURSE FORMAT: Independent study. THEME OF COURSE: Designed for undergraduate students prepared to undertake special problems. Good course for students who plan to go to graduate school or plan to do research in biology. REQUIRED TEXT: No text. Special problems course. TYPICAL WEEKLY ASSIGNMENT: A short report stating: what was done, what was observed, and a statement of conclusions. Report should be turned in at end of term. GRADING PHILOSOPHY: Determined by quality of research work. TENTATIVELY SCHEDULED FOR: This course is offered for Fall, Winter, and Spring Terms for biology majors. It is arranged by appointment with the instructor. PREREQUISITE: Biology major. This course can be taken as a biological science elective.

BUSINESS LAW 243: LEGAL ENVIRONMENT OF BUSINESS

PROFESSOR: Carmen Molinaro. Office hours per week: By appointment

COURSE FORMAT: Lectures. ENROLLMENT: 30-35 majors and non-majors. THEMEM OF COURSE: A general, practical knowledge of law for everyday use is emphasized. REQUIRED TEXT: Introduction to Basic Legal Principles by Phelan. TYPICAL WEEKLY ASSIGNMENTS: 3 chapters to read. EXAMS: 2 midterm exams and a non-comprehensive final. GRADING PHILOSOPHY: Based on student's attendance, his class participation, and his test results. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Fourth-term standing.

BUSINESS LAW 843: INTRODUCTION TO BUSINESS LAW

PROFESSOR: William H. Soisson. Office hours per week: 4.

COURSE FORMAT: Discussions. ENROLLMENT: 35 students per section, predominantly non-majors. THEME OF COURSE: The course deals briefly with criminal and tort laws as they affect commerce, but emphasis is on the law of contracts--how a contract is formed, performed, or breached, and remedies for breach are treated along with negotiable instruments and warranties. REQUIRED TEXT: Business Law. TYPICAL WEEKLY ASSIGNMENTS: About 45 pages of reading, including problems which are dealt with and solved in the classroom. EXAMS: Midterm, final (not comprehensive). GRADING PHILOSOPHY: Examinations provide the bulk of the grade, but class participation, e.g., in solving problems, is given consideration. TENTATIVELY SCHEDULED FOR: Winter Term and Spring Term.

CHEMISTRY 11: INTRODUCTORY CHEMISTRY

PROFESSOR: Dr. John A. Lieb. Office hours per week: 16.

COURSE FORMAT: Lectures, labs, recitations. ENROLLMENT: 24 students per section, mixed student group. THEME OF COURSE: Elements of chemistry; primarily for nurses, non-science majors, and majors requiring remedial work. Previous knowledge of chemistry not required. REQUIRED TEXT: Mimeographed notes prepared by lecturer. Introduction to Chemistry, 2nd edition, by Dickson. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading per week, 5 homework assignments, 5-6 laboratory experiments with reports. EXAMS: Midterm, comprehensive final, and 3 quizzes. GRADING PHILOSOPHY: Focuses on a point system. The following requried assignments are worth the number of points existing within the parentheses: lab reports (500); homework (600); lab quizzes (300); midterm (300); final (300). Earned points in each category are totaled to determine the final grade. 2000 is the maximum number of points which can be earned. To earn a grade of "C", the student must earn a minimum of 1400. To earn a grade of "B", the student must earn a minimum of 1600 points. To earn a grade of "A" he must earn a minimum of 1800 points. TENTATIVELY SCHEDULED FOR: All Terms.

CHEMISTRY 11: INTRODUCTORY CHEMISTRY

PROFESSOR: Dr. Nathan Viswanathan. Office hours per week: 3.

COURSE FORMAT: Lectures, discussions, labs. ENROLLMENTS: 48-60 non-majors and majors beginning remedial work. THEME OF COURSE: Selected basic principles and applications of chemistry, assuming no prior study of chemistry. REQUIRED TEXTS: Introduction to Chemistry, 2nd Education, by Dickson and mimeographed notes prepared by the Chemistry Department. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading, 5 homework assigments, 5 laboratory experiemnts. EXAMS: 1 midterm and a non-comprehensive final and 3 quizzes. GRADING PHILOSOPHY: Absed on a point system, this is the distribution of points: laboratory reports (500); homework (600); lab quizzes (300); midterm (1 hour) (300); final (1 hour) (300). Maximum points is 2000. Grade A: 1800 and above, Grade B: 1600-1799, Grade C: below 1600. TENTATIVELY SCHEDULED FOR: All Terms.

CHEMISTRY 12: CHEMICAL PRINCIPLES

PROFESSOR: Dr. Prem Sattsangi. Office hours per week: 2.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 30-110 majors and non-majors. THEME OF COURSE: Structure of atoms of elements, chemical bonding, stoichiometry, properties of gases, liquids, and solutions, reaction kinetics. Chemistry 14 is a parallel laboratory course. REQUIRED TEXT: Chemistry - The Central Science by Brown and LeMay and a pocket calculator. TYPICAL WEEKLY ASSIGNMENTS: 10-15 pages of reading and 3-5 problems. EXAMS: 2 midterms; a non-comprehensive final; 6, 15-minute quizzes (5 will count toward final grade). GRADING PHILOSOPHY: Midterms (20% each) - 40%, Final - 35%, Quizzes - 25%. A = 90%-100%, B = 80%-89%, C = 65%-79%, D = 50%-64%, F = 0%-49%. TENTATIVELY SCHEDULED FOR: Fall Term, Winter, Term, Spring Term. PREREQUISITE: High school chemistry or Chem. 11.

CHEMISTRY 12: CHEMICAL PRINCIPLES (3 credits)

PROFESSOR: Dr. Nathan Viswanathan. Office hours per week: 3

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 30-110 majors and non-majors. THEME OF COURSE: Structure of atoms of elements, chemical bonding, stoichiometry, properties of gases, liquids, and solutions, reaction kinetics. Chemistry 14 is parallel laboratory course. REQUIRED TEXT: Chemistry - The Central Science by Brown and LeMay. TYPICAL WEEKLY ASSIGNMENTS: 10-15 pages full of facts for reading and 3-5 problems. EXAMS: 3 quizzes, 2 tests and a comprehensive final. GRADING PHILOSOPHY; Class average-C. First 5-10 ranks equal A. Final exams carries 40% of the final grade. Class participation is expected, and it carries 5-10% of the final grade (depending on the size of the class). TENTATIVELY SCHEDULED FOR: Fall and Winter Terms. PREREQUISITE: High school chemistry or Chem. 11.

CHEMISTRY 12: CHEMICAL PRINCIPLES (4 credits)

PROFESSOR: Dr. Nathan Viswanathan. Office hours per week: 5.

COURSE FORMAT: This course is the same as Chemistry 12 (3 credits) except the time corresponding to the extra credit will be utilized to coach students in solving simple problems in algebra and in the fundamentals of chemistry. SUPPLEMENTARY TEXT: Chemical Problem Solving by Dimensional Analysis by Arnold B. Loebel. TENTATIVELY SCHEDULED FOR: Fall and Winter Terms.

CHEMISTRY 13: CHEMICAL PRINCIPLES

PROFESSOR: Dr. Nathan Viswanathan. Office hours per week: 3.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 30-60 majors and non-majors. THEME OF COURSE: Reaction kinetics; equilibrium; acids; bases and salts; chemical thermodynamics; electrochemistry; molecular orbital theory of bonding in molecules; descriptive chemistry of elements. Chemistry 15 is parallel chemistry laboratory course. REQUIRED TEXT: (subject to change) Chemical Principles by Dickerson, Gray and Haight. TYPICAL WEEKLY ASSIGNMENTS: 5-10 pages of reading & a problem set. EXAMS: 2 midterms and a comprehensive final, 2 or 3 ten-minute quizzes. GRADING PHILOSOPHY: Class average is usually "C", top 5-10 students are eligible for "A" grade. Determination of final grade: hour exams - 40%; quizzes - 10%; final exam - 40%; class participation, attendance and attitude - 10%. TENTATIVELY SCHEDULED FOR: Winter and Spring Term. PREREQUISITE: Chem. 12.

CHEMISTRY 14: EXPERIMENTAL CHEMISTRY (GENERAL CHEMISTRY LABORATORY)

PROFESSOR: Dr. Prem Sattsangi. Office hours per week: 2.

COURSE FORMAT: Lectures, discussions, and labs. ENROLLMENT: 24 majors and non-majors. THEME OF COURSE: Fundamental lab course designed for the first-year student. Experiments include topics such as stiochiometry, preparation and analysis of salts, liquid state, solutions, and reaction kinetics. REQUIRED TEXTS: Introduction General Chemistry Laboratory Experimental Writeups, Lab Notebook, Pocket Calculator. TYPICAL WEEKLY ASSIGNMENTS: 5 pages of reading. A pre-lab (1-2 pages) on each experiment is required before starting any experiment. EXAMS: 1 midterm and quizzes based upon experiments. REPORTS: Lab reports after each experiment. GRADING PHILOSOPHY: Labs/Prelabs - 35%, Quizzes - 5%, Exam - 20%, Chemical Unknowns - 15%, and Attendance and Performance - 25%. A = 90%-100%, B = 80%-89%, C = 65%-79%, D = 50%-64%, and F = 0%-49%. TENTATIVELY SCHEDULED FOR: Fall Term and Winter Term. PREREQUISITE: Chem. 12 (or concurrently).

CHEMISTRY 14: EXPERIMENTAL CHEMISTRY (GENERAL CHEMISTRY LABORATORY)

PROFESSOR: Dr. Nathan Viswanathan. Office hours per week: 2.

COURSE FORMAT: Labs. ENROLLMENT: 24 majors and non-majors. THEME OF COURSE: This is a laboratory course paralleling the lecture course Chemistry 12. There are five experiments dealing with stiochiometry, preparation and analysis of salts, liquid state, solutions, and reaction kinetics. These experiments provide a wonderful chance to realize the fundamental concepts in chemistry. REQUIRED TEXT: Manual for General Laboratory Chemistry, Laboratory Notebook, Pocket Calculator. TYPICAL WEEKLY ASSIGNMENTS: Approximately 5 pages of reading and the report form for each experiment to be turned in. EXAMS: 1 quiz. GRADING PHILOSOPHY: Based on point system: performing each experiment--100 points (total 500); report for each experiment--100 points (total 500); quiz--200 points. Total points possible: 1200. Grade A: minimum 1000;

CHEMISTRY 14: EXPERIMENTAL CHEMISTRY (CONT'D)

Grade B: minimum 800; Grade C: minimum 600. TENTATIVELY SCHEDULED FOR: Fall, Winter, and Spring Terms. PREREQUISITE: Chem. 12 (or concurrently).

CHEMISTRY 15: EXPERIMENTAL CHEMISTRY (GENERAL CHEMISTRY LABORATORY)

PROFESSOR: Dr. Prem Sattsangi. Office hours per week: 2.

COURSE FORMAT: Lectures, discussions, and labs. ENROLLMENT: 24 majors and non-majors. THEME OF COURSE: Experimental lab - equilibrium concept. Fundamental principle of equilibrium is the vehicle to learn and use modern instrumentation, like spectrophotometer, pH meter, and pH meter as a potentiometer. REQUIRED TEXTS: Introduction General Chemistry Lab: Experimental Writeups, Lab Notebook, Pocket Calculator. TYPICAL WEEKLY ASSIGNMENTS: 5 pages of reading. A pre-lab (1-2 pages) on each experiment is required before starting any experiment. EXAMS: 1 midterm and quizzes based upon experiments. REPORTS; Lab reports after each experiment. GRADING PHILOSOPHY: Labs/Pre-labs - 35%, Quizzes - 5%, Exam - 20%, Identification of Unknowns - 15%, and Attendance and Performance - 25%. A = 90%-100%, B = 80%-89%, C = 65%-79%, D = 50%-64%, F = 0%-49%. TENTATIVELY SCHEDULED FOR: Winter Term and Spring Term. PREREQUISITES: Chem. 12, Chem. 14; Chem. 13 (or concurrently).

CHEMISTRY 15: EXPERIMENTAL CHEMISTRY (GENERAL CHEMISTRY LABORATORY)

PROFESSOR: Dr. Nathan Viswanathan. Office hours per week: 2.

COURSE FORMAT: Labs. ENROLLMENT: 24 majors and non-majors. THEME OF COURSE: This is a laboratory course paralleling the lecture course Chemistry 13. There are 7-8 experiments on the "Equilibrium" concept. Experiments involve use of pH-meter and spectrophotometer for analysis. This course gives students the opportunity to think with their heads and to do experiments with their hands. REQUIRED TEXT: Manual for General Laboratory Chemistry, Laboratory Notebook and Pocket Calculator. Estimated cost of supplies: $1. TYPICAL WEEKLY ASSIGNMENTS: Approximately 5 pages of reading and the report form for each experiment to be turned in. EXAMS: 1 quiz. GRADING PHILOSOPHY: Based on point system: Each experiment--100 points (total 700); report for each experiment--100 points (total 700); quiz--100 points. Total points possible: 1500. Grade A: minimum 1400; Grade B: minimum 1200; Grade C: minimum 1000. TENTATIVELY SCHEDULED FOR: Winter and Spring Terms. PREREQUISITES: Chem. 12 and 14; Chem. 15 (or concurrently).

CHEMISTRY 23: INTRODUCTION TO MODERN ANALYTICAL CHEMISTRY

PROFESSOR: Dr. Nathan Viswanathan. Office hours per week: 5.

COURSE FORMAT: Lectures, discussions, lab. ENROLLMENT: 10 non-majors. THEME OF COURSE: This course deals with the use of modern analytical instruments such as visible, ultraviolet and infrared spectrophotometers, chromotography, NMR spectrometer, etc. Chemicals and drugs used in our day-to-day life will be identified and analyzed, using these instruments in the laboratory part of the course. REQUIRED TEXT: Fundamentals of Analytical Chemistry by Skoog and West. TYPICAL WEEKLY ASSIGNMENTS: 10-15 pages of reading, 5 problems-assigned homework, and 1 report for each experiment completed. PAPERS: No exams or quizzes. Each student is expected to select a topic dealing with one of the modern instruments used in the analytical work; the report will be written and then presented as a lecture to the class. GRADING PHILOSOPHY: Grading is based on student's progress as measured by his personal involvement in the class and his/her initiative. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITES: Chem. 13 and Chem. 15.

CHEMISTRY 30: ORGANIC CHEMISTRY

PROFESSOR: Dr. John Lieb. Office hours per week: 16.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 15 majors. THEME OF COURSE: Theoretical organic chemistry. REQUIRED TEXTS: Organic Chemistry, 3rd Edition, by Morrison and Boyd, Morrison and Boyd's Problem and Answer Book, and Molecular Model Kit. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading. EXAMS: 2 midterms and a non-comprehensive final. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITES: Chem. 12, Chem. 13, Chem. 14, Chem. 15.

CHEMISTRY 30: ORGANIC CHEMISTRY

PROFESSOR: Dr. Prem Sattsangi. Office hours per week: 2.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 15 majors and non-majors. THEME OF COURSE: Theoretical Organic Chemistry, Fundamental Concepts, Stereochemistry, and simple hydrocarbon chemistry. REQUIRED TEXTS: Organic Chemistry, 3rd Edition, by Morrison and Boyd, Morrison and Boyd's Problem and Answer Book and Molecular Models from W.A. Benjamin Publishing Co. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading and one problem set consisting of 4-6 problems. EXAMS: 2 midterms, a non-comprehensive final, quizzes, weekly problem sets graded as take-home assignments. GRADING PHILOSOPHY: Midterms - 20% each, Final - 30%, Take-home assignments - 20%, Class participation - 10%. The raw scores will be scaled to 100. A = 90%-100%, B = 80%-89%, C = 65%-79%, D = 50%-64%, and F = 0%-49%. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITES: Chem. 12, Chem. 13, Chem. 14, Chem. 15.

CHEMISTRY 31: ORGANIC CHEMISTRY

PROFESSOR: Dr. John Lieb. Office hours per week: 16

This course is a continuation of Chemistry 30. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Chem. 30.

CHEMISTRY 31: ORGANIC CHEMISTRY

PROFESSOR: Dr. Prem Sattsangi. Office hours per week: 2.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 15 majors and non-majors. THEME OF COURSE: Theoretical Organic Chemistry (continuation of Chem. 30), Elementary Spectroscopy, Chemistry of Functional Groups. REQUIRED TEXTS: Organic Chemistry, 3rd Edition). by Morrison and Boyd, Morrison and Boyd's Problem and Answer Book, and Molecular Models from W. A. Benjamin Publishing Co. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading. EXAMS: 2 midterms, a non-comprehensive final, quizzes, weekly problem sets graded as take-home assignments. GRADING PHILOSOPHY: Midterms - 20% each, Final - 30%, Take-home assignments - 20%, Class participation - 10%. The raw scores will be scaled to 100. A = 90%-100%, B = 80%-89%, C = 65%=79%, D = 50%-64%, F = 0%-49%. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITES: Chem. 12, Chem. 13, Chem. 14, Chem. 15, Chem. 30.

CHEMISTRY 33: ORGANIC CHEMISTRY

PROFESSOR: Dr. John Lief. Office hours per week: 16.

This course is a continuation of Chemistry 31. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Chem. 31.

CHEMISTRY 34: ORGANIC CHEMISTRY

PROFESSOR: Dr. John Lieb. Office hours per week: 16.

Introduction to organic chemistry with emphasis on the properties of organic compounds of biochemical importance. REQUIRED TEXT: Introduction to Organic Chemistry by DePuy and Rinehart. TENTATIVELY SCHEDULED FOR: Fall and Spring Terms. PREREQUISITE: Chem. 11 or 12.

CHEMISTRY 35: ORGANIC CHEMISTRY

PROFESSOR: Dr. Prem Sattsangi. Office hours per week: 2.

COURSE FORMAT: Lectures, discussions, and labs. ENROLLMENT: 2-6 majors and non-majors. THEME OF COURSE: Introduction to organic chemistry with emphasis on the identification of organic compounds by characteristic chemical reactions and by spectroscopy. REQUIRED TEXT: George W. Goekel Lab Manual. TYPICAL WEEKLY ASSIGNMENTS: Lab reports required at the end of each lab. EXAMS: An exam covering the chemistry performed in the lab, safety, and spectroscopy. GRADING PHILOSOPHY: Attendance and Performance in Lab - 25%, Identification of Unknowns - 40%, Lab Reports - 15%, Written Exam - 20%. A = 90%-100%, B = 80%-89%, C = 65%-79%, D = 50%-64%, and F = 0%-49%. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Chem. 34.

CHEMISTRY 36: LABORATORY IN ORGANIC CHEMISTRY

PROFESSOR: Dr. John Lieb. Office hours per week: 16.

Basic laboratory operations; applications of theories and principles. This is the laboratory course for Chemistry 30, 31 and 33. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE OR CONCURRENT: Chem. 31.

CHEMISTRY 36: LABORATORY IN ORGANIC CHEMISTRY

PROFESSOR: Dr. Prem Sattsangi. Office hours per week: 2.

COURSE FORMAT: Lectures, discussions, and labs. ENROLLMENT: 6-10 majors and non-majors. THEME OF COURSE: Basic laboratory techniques. Application of theory and principles. Use of ultraviolet and visible, infrared spectrometers, and identification of organic compounds. REQUIRED TEXT: George W. Goekel Lab Manual. TYPICAL WEEKLY ASSIGNMENTS: Lab reports required at the end of each lab. EXAMS: Exam covering the chemistry performances in the lab, safety, and spectroscopy. GRADING PHILOSOPHY: Attendance and Performance in lab - 25%, Identification of Unknowns - 40%, Lab Reports - 15%, Written Exam - 20%. A = 90%-100%, B = 80%-89%, C = 65%-79%, D = 50%-64%, and F = 0%-49%. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Chem. 31 (or concurrently).

CHEMISTRY 389: SPECIAL PROBLEMS AND RESEARCH (by appointment only)

PROFESSOR: Dr. Nathan Viswanathan. Office hours per week: By appointment.

COURSE FORMAT: Discussions, labs. ENROLLMENT: 1-3 majors and non-majors in a given term. THEME OF COURSE: This course will include a survey of chemical literature, independent thinking and an application of what you know. REQUIRED TEXT: None. TYPICAL WEEKLY ASSIGNMENTS: 1 book and 2-3 journals. EXAMS: None. PAPERS: One report on the project assigned to the student. FIELD TRIP: Depends on the nature of the project assigned to the student. A specific chemistry project will be assigned to each student on review of chemical literature of an experimental problem. Students can do either part or whole project for 1 to 4 credits. TENTATIVELY SCHEDULED FOR: All Terms. PREREQUISITE: Chem. 12, 13, 14, and 15 (or concurrently).

CIVIL ENGINEERING 861: FLUID FLOW.

PROFESSOR: William E. Chasko. Office hours per week: 5.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 10-30 students per section, predominantly majors. This course may serve as an elective in the following associate degree programs: mining technology, mechanical engineering technology, electrical engineering technology or architectural engineering technology. THEME OF COURSE: To introduce the subject of fluid flow (or hydraulics). REQUIRED TEXT: Introduction to Fluid Mechanics by Henke. TYPICAL WEEKLY ASSIGNMENTS: Two-three chapters of reading and the problems at end of each chapter. EXAMS: Midterm, a comprehensive final, 2-3 quizzes per term. GRADING PHILOSOPHY: 40% exams, 30% quizzes, 25% lab assignments, 5% miscellaneous (attitude and attendance). TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Engineering Mechanics 810 or 811; Mathematics 802.

CIVIL ENGINEERING 861: FLUID FLOW

PROFESSOR: Fred Yoder. Office hours per week: By appointment

COURSE FORMAT: Lectures and problem work time. ENROLLMENT: 12-15 majors. THEME OF COURSE: Particular emphasis is placed on the needs of the manufacturing and process industries; fluid mechanics realted to fluid power. REQUIRED TEXT: Introduction to Fluid Mechanics by Henke. TYPICAL WEEKLY ASSIGNMENTS: 15-20 pages of reading and problem sets. Problems are assigned for each class, and other problems are worked in class individually and in groups. EXAMS: 3 tests, two during term and a non-comprehensive final. GRADING PHILOSOPHY: Each test will count one-third of the final grade. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Engineering Mechanics 810 or 811; Mathematics 802.

COMMUNITY DEVELOPMENT 7: INTRODUCTION TO COMMUNITY SYSTEMS

PROFESSOR: W.H. Soisson III. Office hours per week: 4.

COURSE FORMAT: Discussions and videotapes. ENROLLMENT: 30 non-majors. THEME OF COURSE: Emphasis is on "Systems Analysis" as examining such social systems as Juvenile Justice and Income Distribution to discover current problems and possible solutions. REQUIRED TEXT: The Systems Approach by Churchman and a series of printed outlines prepared for the course. TYPICAL WEEKLY ASSIGNMENTS: 20-30 pages of reading. EXAMS: 4 midterms, each covering approximately one-fourth of the material. GRADING PHILOSOPHY: Midterms determine the bulk of the final grade. Class participation and attitude will be considered in borderline cases. TENTATIVELY SCHEDULED FOR: Spring Term.

COMPUTER SCIENCE 1: BASIC COMPUTER PROGRAMMING

PROFESSOR: Faculty.

COURSE FORMAT: Lecture. ENROLLMENT: Non-majors. THEME OF COURSE: An introduction to flow charting, algorithms, and writing basic fortran programs. The students will gain a primitive notion of computer programming. This is an excellent course for non-mathematics majors in preparation for Computer Science 101. REQUIRED TEXT: A First Course in Programming Fortran IV with Watf IV, Campbell and Singletary. EXAMS AND PAPERS: A comprehensive final exam, no other exams or quizzes. Three assignments which include two fortran programs to be written. GRADING PHILOSOPHY: Grade is determined by final exam with extra credit for the three assignments. TENTATIVELY SCHEDULED FOR: Fall, Winter and Spring Terms. PREREQUISITE: Two entrance units in mathematics.

COMPUTER SCIENCE 101: INTRODUCTION TO ALGORITHMIC PROCESS

PROFESSOR: Faculty.

COURSE FORMAT: Lecture. ENROLLMENT: 30 non-majors. THEME OF COURSE: A detailed study of basic fortran with special emphasis on writing computer programs involving decisions, looping, arrays, and controlled input/output. Student will be well prepared for advanced fortran or further Computer Science. REQUIRED TEXT: A First Course in Programming Fortran IV with Watf IV, Campbell and Singletary. TYPICAL WEEKLY ASSIGNMENT: Computer programs to be written are assigned periodically, about eight during the term. EXAMS: A midterm and a final (not comprehensive). GRADING PHILOSOPHY: Grade is determined by average of midterm and final, with extra credit given for programs written during semester. TENTATIVELY SCHEDULED FOR: Fall, Winter and Spring Terms. PREREQUISITE: Two entrance units in mathematics.

COMPARATIVE LITERATURE 108: MYTHS AND MYTHOLOGIES

PROFESSOR: Dr. Evelyn Hovanec. Office hours per week: 6

COURSE FORMAT: Lectures, discussions, and audio-visual materials. ENROLLMENT: 35 majors and non-majors. THEME OF COURSE: A comparative reading of the mythologies of the ancient Middle East, Greece, Northern Europe, and the North American Indian built around the themes of the beginning or creation of the owrld, explanations of natural phenomena, fertility, character of the trickster, character of the hero, the end of the world or the other world. Some time is spent exploring the survival of the myths or ideas in our own world. REQUIRED TEXTS: The Oldest Stories in the World by Gaster, Tales of the North American Indians by Thompson, Classiscal Mythology by Morford and Lenardon, The Hero with a Thousand Faces by Campbell, and a Norse or Germanic myth to be determined. TYPICAL ASSIGNMENTS: 150 pages of reading. EXAMS: 3 midterms, a non-comprehensive final, weekly reading quizzes. GRADING PHILOSOPHY: Final grade is determine from quizzes, midterms, and final exam. Class participation and attendance are considered. TENTATIVELY SCHEDULED FOR: Spring Term.

CULTURAL FOUNDATIONS OF EDUCATION 115: EDUCATION IN AMERICAN SOCIETY

PROFESSOR: Dr. Gary A. Gallucci. Office hours per week: 12.

COURSE FORMAT: Discussions, field experiences in educational settings. ENROLLMENT: 10-35 majors and non-majors. THEME OF COURSE: Social, philosophical, and cultural implications of aspects of American society and their effects upon the educational process. REQUIRED TEXTS: The Schools and Socialization by Schwartz, The Civil Rights of Students by Schimmely and Fischer, and Conflict and Change in Education by Ianni. TYPICAL WEEKLY ASSIGNMENTS: 50-60 pages of reading, field experience visitations in educational settings. EXAMS AND PAPERS: 3 exams, one paper. GRADING PHILOSOPHY: Equal weights are given to tests, papers, or field experience visitations, and class participation. TENTATIVELY SCHEDULED FOR: Fall and Spring Terms.

ECONOMICS 2: INTRODUCTORY MICROECONOMIC ANALYSIS AND POLICY

PROFESSOR: Donal L. Leaphart. Office hours per week: 3.

COURSE FORMAT: Lectures. ENROLLMENT: 50-55 majors and non-majors. THEME OF COURSE: Principles of Price Determination, Theory of the Firm, and Distribution of Output. REQUIRED TEXTS: Economics by Campbell R. McConnell. TYPICAL WEEKLY ASSIGNMENTS: 50-75 pages of reading. EXAMS: 2 exams and a non-comprehensive final. GRADING PHILOSOPHY: Final grade will be determined from the scores on the 3 exams and quizzes. TENTATIVELY SCHEDULED FOR: Fall Term. (Summer Term for 2 Bus. Ad.)

ECONOMICS 4: INTRODUCTORY MACROECONOMIC ANALYSIS AND POLICY

PROFESSOR: Donald L. Leaphart. Office hours per week: 3.

COURSE FORMAT: Lectures. ENROLLMENT: 45-50 majors and non-majors. THEME OF COURSE: Principles of Income Determination and Measurement, Money and BAnking, and Policy Problems. REQUIRED TEXTS: Economics by Campbell R. McConnell. TYPICAL WEEKLY ASSIGNMENTS: 50-75 pages of reading. EXAMS: 2 exams and a non-comprehensive final. GRADING PHILOSOPHY: Grade will be determined form the scores on the 3 exams and quizzes. TENTATIVELY SCHEDULED FOR: Winter Term.

ECONOMICS 14: PRINCIPLES OF ECONOMICS

PROFESSOR: Donald L. Leaphart. Office hours per week: 4.

COURSE FORMAT: lectures. ENROLLMENT: Majors and non-majors. THEME OF COURSE: Brief introduction to economics. Emphasizes interrelationships of consumers, producers, government, and labor. REQUIRED TEXT: Economics by McConnell. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading. EXAMS AND PAPERS: 2 midterms and a non-comprehensive final. GRADING PHILOSOPHY: Final grade is based on examination scores. TENTATIVELY SCHEDULED FOR: Fall Term and Summer Term. Students who have passed Economics 2 or are registered in the College of Business Administration (Baccalaureate or four-year program) may not schedule this course.

EDUCATIONAL PSYCHOLOGY 10: PUPIL DIFFERENCES AND EDUCATIONAL READINESS

PROFESSOR: Dr. Gary A. Gallucci. Office hours per week: 12.

COURSE FORMAT: Discussions and field experiences in educational settings. ERNOLLMENT: 15-35 majors and non-majors. THEME OF COURSE: Educational readiness, environment, and physical and cognitive developments. REQUIRED TEXTS: Education and Psychology: A Developmental Approach by Sprinthill and Sprinthill, and Child Development by Ambron. TYPICAL WEEKLY ASSIGNMENTS: 50-60 pages of reading. EXAMS AND PAPERS: 3 exams, 1 paper. GRADING PHILOSOPHY: Equal weights are given to tests, papers and field experience, visitations, and class participation. TENTATIVELY SCHEDULED FOR: Spring Term.

EDUCATIONAL PSYCHOLOGY 12: SOCIAL PROCESSES IN THE SCHOOL

PROFESSOR: Dr. Gary A. Gallucci. Office hours per week: 15.

COURSE FORMAT: Discussions. ENROLLMENT: 15-20 majors and non-majors. THEME OF COURSE: To emphasize social psychology in relationship to school practices and interpersonal relationships. REQUIRED TEXTS: Reaching Out by David Johnson, The Social Psychology of Education by Johnson, and Social Psychology: Issues and Insights by Johnson and Watson. TYPICAL WEEKLY ASSIGNMENTS: 50-60 pages of reading. EXAMS: 3 exams with equal weight. OTHER COURSE REQUIREMENT: Field experiences in public school systems. GRADING PHILOSOPHY: Three-part evaluation: class participation, field experience, and written exams. TENTATIVELY SCHEDULED FOR: Winter Term.

EDUCATIONAL PSYCHOLOGY 14: LEARNING AND INSTRUCTION

PROFESSOR: Dr. Gary A. Gallucci. Office hours per week: 15.

COURSE FORMAT: Discussions. ENROLLMENT: 35-40 majors. THEME OF COURSE: Survey course on educational theory in relationship to school practices. REQUIRED TEXT: Educational Psychology by Blair, Jones, Simpson. TYPICAL WEEKLY ASSIGNMENTS: 50-60 pages of reading. EXAMS: 3 exams of equal weight. OTHER COURSE REQUIREMENT: Field experiences in school systems. GRADING PHILOSOPHY: Three-part evaluation: class participation, field experience, and written exams. TENTATIVELY SCHEDULED FOR: Fall Term.

ELECTRICAL ENGINEERING 51: SIGNALS AND CIRCUITS 1

PROFESSOR: Thomas Stehney. Office hours per week: 5.

COURSE FORMAT: Lectures. ENROLLMENT: 15 majors. THEME OF COURSE: Introduction to electrical circuit analysis, linear networks, transient and steady state responses. REQUIRED TEXT: Engineering Circuit Analysis by Hazt and Kimmenerly. TYPICAL WEEKLY ASSIGNMENTS: 3 problem sets preceding each of 3 exams, daily quizzes. EXAMS: 2 midterm exams, final, and daily quizzes. GRADING PHILOSOPHY: Attendance - 10%; Daily Quizzes - 10%; Four Computer Problems - 10%; Three Texts - 70% (drop 1 if 60% or greater). TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITES: Math 72 or 100; Phys. 202.

ELECTRICAL ENGINEERING 52: SIGNALS AND CIRCUITS II

PROFESSOR: Thomas Stehney. Office hours per week: 5.

COURSE FORMAT: Lectures. ENROLLMENT: 15 majors. THEME OF COURSE: Transform techniques in circuit analysis. REQUIRED TEXT: Engineering Circuit Analysis by Hazt and Kimminerly. TYPICAL WEEKLY ASSIGNMENTS: 3 problem sets preceding each of 3 exams, daily quizzes. EXAMS: 2 midterm exams, final and daily quizzes. GRADING PHILOSOPHY: Attendance - 10%; Daily Quizzes - 10%; 10 - Computer Problems - 10%; Three Tests - 70% (drop 1 if 60% or greater). TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: E.E. 51. PREREQUISITE OR CONCURRENT: Cmp. Sc. 101 or 201, Math 102.

ELECTRICAL ENGINEERING 800: APPLIED ELECTRICITY

PROFESSOR: Thomas Stehney. Office hours per week: 6.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 20 majors and non-majors. THEME OF COURSE: Basic electricity for architectural engineering technology majors. REQUIRED TEXT: Introductory Circuit Analysis by Boylestad. TYPICAL WEEKLY ASSIGNMENTS: 3 problem sets preceding each of 3 exams. EXAMS AND FINALS: 2 midterm exams, 1 final, and daily quizzes. GRADING PHILOSOPHY: Attendance - 10%; Daily Quizzes - 15%; Three Tests - 75% (drop 1 if 60% or greater). TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITE: Math 801.

ELECTRICAL ENGINEERING 801: FUNDAMENTALS OF D.C. CIRCUITS

PROFESSOR: Thomas Stehney. Office hours per week: 6.

COURSE FORMAT: Lectures. ENROLLMENT: 25 majors. THEME OF COURSE: Direct current circuits. REQUIRED TEXT: Introductory Circuit Analysis by Boylestad. TYPICAL WEEKLY ASSIGNMENTS: 3 problem sets preceding each of 3 exams, 2-computer problems. EXAMS: 2 midterm exams, final and daily quizzes. GRADING PHILOSOPHY: 10% attendance, 15% daily quizzes, 5% 2-computer problems, and 70% 3 tests (drop 1 if 60% or greater). TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Math 801.

ELECTRICAL ENGINEERING 804: A.C. CIRCUITS

PROFESSOR: Ferd Neill. Office hours per week: 3.

COURSE FORMAT: Lectures. ENROLLMENT: 15-23 majors. THEME OF COURSE: Polyphase systems, methods of analysis, superposition, Thevenin and Norton's theorems, model analysis, maximum power transfer theorems, circle diagrams, phase shifting. REQUIRED TEXT: Introductory Circuit Analysis by Boylestad. TYPICAL WEEKLY ASSIGNMENTS: 20-25 pp. of text and 20-25 problems. EXAMS: 2 midterm exams, final. GRADING PHILOSOPHY: Grading is based on three equally weighed exam scores for 75%, class participation 15%, and initiative and attendance 10%. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITE: E.E. 814.

ELECTRICAL ENGINEERING 807: A.C. AND ELECTRONICS LABORATORY

PROFESSOR: Thomas Stehney. Office hours per week: 6.

COURSE FORMAT: Labs. ENROLLMENT: 15 majors. THEME OF COURSE: A.C. laboratory experiments. TYPICAL WEEKLY ASSIGNMENTS: 1 experiment. GRADING PHILOSOPHY: Class performance and reports. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: E.E. 818. Must be taken with E.E. 804 and 810.

ELECTRICAL ENGINEERING 809: D.C. CIRCUITS LABORATORY

PROFESSOR: Ferd Neill. Office hours per week: 3.

COURSE FORMAT: Labs. ENROLLMENT: 15-23 majors. THEME OF COURSE: This course augments the lecture course E.E. 801 and runs concurrently with E.E. 801. REQUIRED TEXT: Lab Exercises. TYPICAL WEEKLY ASSIGNMENTS: Report on experiment completed during class hours. Reports are formally prepared to a prescribed format. EXAMS: 1 midterm exam and 1 final. GRADING PHILOSOPHY: Grading is based on: Attendance - 10%; Classroom Performance - 10%; Formal Reports - 40%; Informal Reports - 20%, Exams (midterm and final) - 20%. TENTATIVELY SCHEDULED FOR: Winter Term. Must be taken with E.E. 801.

ELECTRICAL ENGINEERING 810: FUNDAMENTALS OF SEMICONDUCTORS

PROFESSOR: Thomas Stehney. Office hours per week: 5.

COURSE FORMAT: Lectures. ENROLLMENT: 15 majors. THEME OF COURSE: Fundamentals of semiconductors and associated circuitry. REQUIRED TEXT: Electronic Devices and Circuit Theory by Boylestad. TYPICAL WEEKLY ASSIGNMENTS: 3 problem sets/term preceding each of 3 exams, daily quizzes. EXAMS: 2 midterm exams, 1 final, and daily quizzes. GRADING PHILOSOPHY: Attendance - 10%; Daily Quizzes - 15%; 2 Computer Problems - 5%; Three Tests - 70% (drop 1 if 60% or greater). TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITES: E.E. 814, Math 803.

ELECTRICAL ENGINEERING 813: FUNDAMENTALS OF ELECTRICAL MACHINES

PROFESSOR: Thomas Stehney. Office hours per week: 5.

COURSE FORMAT: Lectures and laboratory experiments. ENROLLMENT: 20-25 majors. THEME OF COURSE: A.C. Machine Design. REQUIRED TEXT: Electrical Machines by Siskind. TYPICAL WEEKLY ASSIGNMENTS: Reading 2 chapters in text, 2 laboratory experiments. EXAMS: 1 final (Student must achieve 50% to pass course.), daily quizzes. GRADING PHILOSOPHY: Quizzes - 20%; Final - 55%; Lab Reports - 20%; Attendance - 5%. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITES: E.E. 814, E.E. 818.

ELECTRICAL ENGINEERING 814: ELECTRICAL CIRCUITS

PROFESSOR: Ferd Neill. Office hours per week: 3.

COURSE FORMAT: Lectures. ENROLLMENT: 15-25 electrical engineering majors. THEME OF COURSE: A continuation of D.C. circuits including capacitance, inductance, magnetism and electromagnetism. A.C. circuits including sinusoidal wave development, series and parallel circuits, resonance. REQUIRED TEXT: Introductory Circuit Analysis by Boylestad. TYPICAL WEEKLY ASSIGNMENTS: Approximately 1 chapter (30 pp.). Approximately 8-10 problems. EXAMS: 2 midterm exams, 1 final, 3 tests/term. GRADING PHILOSOPHY: Grading is based on test score averages, class participation, attendance. (85%, 10%, and 5% respectively). TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITES: E.E. 801, Math 802.

ELECTRICAL ENGINEERING 814: ELECTRICAL CIRCUITS

PROFESSOR: Wilson Shope. Office hours per week: By appointment.

COURSE FORMAT: Lectures, discussions, problem and quiz sessions. ENROLLMENT: 20 majors and non-majors. THEME OF COURSE: Direct-current circuit analysis; introduction to basic magnetism and magnetic circuits; single-phase circuit fundamentals. REQUIRED TEXT: Introductory Circuit Analysis by Boylestad. TYPICAL WEEKLY ASSIGNMENTS: 19 pages of reading and 5 problem sets. EXAMS: 3 midterm exams, and a comprehensive final. GRADING PHILOSOPHY: Attendance - 10%; Class Performance and Deportment -25%; Homework - 20%; Three Tests - 35%; Final Exam - 10%. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITES: E.E. 801, Math 802.

ELECTRICAL ENGINEERING 815: A.C. MACHINERY AND CONTROL

PROFESSOR: Ferd Neill. Office hours per week: 3.

COURSE FORMAT: Lectures. ENROLLMENT: 10-15 electrical engineering majors. THEME OF COURSE: Detailed analysis of generators (A.C.), transformers, motors, boltage regulators, selected control apparatus. REQUIRED TEXT: Electrical Machinery by Siskind. TYPICAL WEEKLY ASSIGNMENTS: Reading assignment approximately 35 pp. Approximately 8 exercise problems. EXAMS: 2 midterm exams, final. GRADING PHILOSOPHY: Grading is based on test score averages, class participation, attendance. (85%, 10%, and 5% respectively). TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITES: E.E. 804, 813.

ELECTRICAL ENGINEERING 818: ELECTRICAL CIRCUITS LABORATORY

PROFESSOR: Ferd Neill. Office hours per week: 3.

COURSE FORMAT: Labs. ENROLLMENT: 15-23 electrical engineering majors. THEME OF COURSE: This electrical laboratory course runs concurrently with E.E. 814 which is a lecture course and emphasizes the material covered in E.E. 814. REQUIRED TEXT: Introductory Circuit Analysis by Boylestad. TYPICAL WEEKLY ASSIGNMENTS: 1 lab experiment and 1 report. Lab reports are approximately 50% formal and 50% informal. GRADING PHILOSOPHY: Grading is based on quality and punctuality of reports, attendance and participation. (85%, 10%, and 5% respectively). TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: E.E. 809. Must be taken with E.E. 814.

ELECTRICAL ENGINEERING 819: A.C. MACHINERY LABORATORY

PROFESSOR: Ferd Neill. Office hours per week: 3.

COURSE FORMAT: labs only. ENROLLMENT: 10-15 electrical engineering majors. THEME OF COURSE: This laboratory course runs concurrently with E.E. 815 machinery course and exhibits the material covered by the lecture of E.E. 815. REQUIRED: Lab Exercises. TYPICAL WEEKLY ASSIGNMENTS: Lab exercise. Reports are formally completed according to a prescribed format. GRADING PHILOSOPHY: Grading is based on the quality of the laboratory report and also on the student's attendance and lab participation. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: E.E. 807. Must be taken with E.E. 815.

ENGINEERING @: ENGINEERING ORIENTATION

PROFESSOR: William Chasko. Office hours per week: 5.

COURSE FORMAT: Lectures and problem assignments. ENROLLMENT: 20-40 majors and non-majors. THEME OF COURSE: Engineering calculations are stressed, and various fields of engineering and discussed. REQUIRED TEXT: Slide Rule, Electronic Hand Calculator, and Metrification in Engineering (3rd Ed.) by Beakley. TYPICAL WEEKLY ASSIGNMENTS: 25 pages of reading and 10-15 problem set exercises. EXAMS: Midterm, comprehensive final, and 2-3 quizzes, based on labs and problem assignments. PAPER: 1 or 2 papers (200-300 words each), requiring research on a topic in the student's field of interest. GRADING PHILOSOPHY: Exams - 40%; Quizzes - 30%; Lab Assignments, Problems, and Reports - 25%; Miscellaneous - 5%. TENTATIVELY SCHEDULED FOR: Fall Term.

ENGINEERING 5; EXPERIMENTAL METHODS FOR ENGINEERS

PROFESSOR: Thomas Stehney. Office hours per week: 5.

COURSE FORMAT: Lectures, discussions, and labs. ENROLLMENT: 50 majors. THEME OF COURSE: An exposure to engineering equipment and its associative usage. REQUIRED TEXT: Experimental Methods for Engineering by PSU staff. TYPICAL WEEKLY ASSIGNMENTS: Experiments; EXAMS AND PAPERS: A comprehensive final. Write-ups of experiments and a formal report. GRADING PHILOSOPHY: Final Exam - 50% (must achieve more than 50% to pass course), Reports - 40%, and Attendance - 10%. TENTATIVELY SCHEDULED FOR: Fall Term.

ENGINEERING GRAPHICS 1: ENGINEERING DRAWING

PROFESSOR: William Chasko. Office hours per week: 3-4.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 20-35 majors. THEME OF COURSE: To learn the basics of Engineering Graphics and Engineering Design (for technology students only). REQUIRED TEXT: Technical Drawing, (6th Ed.) by Giesecke and others. TYPICAL WEEKLY ASSIGNMENTS: 2-3 plates (drawings) and read a chapter in text. EXAMS: Midterm exam, a comprehensive final, 2 quizzes. GRADING PHILOSOPHY: Lab Work - 40%; Exams - 30%; Quizzes - 25%; Miscellaneous - 5%. TENTATIVELY SCHEDULED FOR: Fall Term, Winter Term, and Summer Term.

ENGINEERING GRAPHICS 1: ENGINEERING DRAWING

PROFESSOR: Fred Yoder. Office hours per week: By appointment.

COURSE FORMAT: Lectures, discussions, drawing labs. ENROLLMENT: 22 non-majors. THEME OF COURSE: Technical skills and drafting room practices, fundamentals of theoretical graphics, orthogonal, oblique, and perspective projections, working, and schematic drawings. REQUIRED TEXT: Technical Drawing, (6th Ed.) by Giesecke and others. Drawing equipment. TYPICAL WEEKLY ASSIGNMENTS: 20 pages of reading. For each class session, drawings assigned become increasingly more complex. GRADING PHILOSOPHY: The grade is derived from the set of engineering drawings that are prepared, one each class session. TENTATIVELY SCHEDULED FOR: Fall Term, Winter Term, and Summer Term.

ENGINEERING GRAPHICS 10: INTRODUCTORY ENGINEERING GRAPHICS

PROFESSOR: William Chasko. Office hours per week: 5.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 15-30 majors and non-majors. THEME OF COURSE: Students are introduced to graphics and design in stages and are called upon to perform graphics assignments in lab class. REQUIRED TEXTS: Engineering Design Graphics by Giesecke and others. Workbook - Graphics and Geometry by Earle and others. TYPICAL WEEKLY ASSIGNMENTS: 20-30 pages of reading and 2-3 drawings. EXAMS: Midterm, a comprehensive final, and 2-3 quizzes. GRADING PHILOSOPHY: Plates - 40%, Exams - 30%, Quizzes - 25%, and Miscellaneous - 5%. TENTATIVELY SCHEDULED FOR: Winter Term.

ENGINEERING GRAPHICS 10: INTRODUCTORY ENGINEERING GRAPHICS

PROFESSOR: Fred Yoder. Office hours per week: By appointment.

COURSE FORMAT: Lectures, discussions, drawing labs. ENROLLMENT: 15 majors and non-majors. THEME OF COURSE: Introduction to multi-view projection; pictorials, including perspectives; space analysis, graphs, and graphical mathematics. REQUIRED TEXTS: Engineering Design Graphics by Giesecke and others. Workbook - Graphics and Geometry "2" by Earle and others. TYPICAL WEEKLY ASSIGNMENTS: 20 pages of reading. Workbook drawing or an engineering drawing from text assigned for each class session. EXAMS: Midterm and a comprehensive final. GRADING PHILOSOPHY: Classroom drawings and assigned drawings - 50%, Exams - 50%. TENTATIVELY SCHEDULED FOR: Winter Term.

ENGINEERING GRAPHICS 11: ENGINEERING DESIGN GRAPHICS

PROFESSOR: William Chasko. Office hours per week: 4-5.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 20-30 majors and non-majors. THEME OF COURSE: Learning Descriptive Design Principles and Graphical Solutions to problems. REQUIRED TEXT: Engineering Design Graphics, (2nd Ed.) by Earle and others. TYPICAL WEEKLY ASSIGNMENTS: 2-3 drawings; 1 to 1 1/2 chapters of reading. EXAMS: Midterm, a comprehensive final, and 2-3 quizzes. GRADING PHILOSOPHY: Lab Assignments - 40%, Exams - 30%, Quizzes - 25%, Miscellaneous - 5%. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: E.G. 10 or 21.

ENGINEERING GRAPHICS 12: SPATIAL ANALYSIS

PROFESSOR: William Chasko. Office hours per week: 4-5.

COURSE FORMAT: Lectures. ENROLLMENT: 10-25 majors. THEME OF COURSE: Learning about points, lines, and planes and their relationships in space. REQUIRED TEXT: Technical Descriptive Geometry by Wellman. TYPICAL WEEKLY ASSIGNMENTS: 2-3 plates and a chapter to read. EXAMS: Midterm, a comprehensive final, 2-3 quizzes. COURSE REQUIREMENTS: Notebook required at the end of the term. GRADING PHILOSOPHY: Plates - 40%; Exams - 30%; Quizzes - 35%, Attitude and Attendance - 5%. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: 1 credit of introductory graphics.

ENGINEERING GRAPHICS 12: SPATIAL ANALYSIS

PROFESSOR: Fred Yoder. Office hours per week: By appointment.

COURSE FORMAT: Lectures, discussions, and labs. ENROLLMENT: 20 majors. THEME OF COURSE: An in-depth study for solving 3-D engineering problems using graphical geometry, not math. Graphical methods used exclusively. TEXTS: Technical Descriptive Geometry and its accompanying workbook by Wellman. TYPICAL WEEKLY ASSIGNMENTS: 15 pages of reading and six drawings. EXAMS: 2 midterms and a comprehensive final. GRADING PHILOSOPHY: Each Exam - 1/3 of final grade. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: 1 credit of introductory graphics.

ENGINEERING MECHANICS 11: STATICS

PROFESSOR: William Chasko. Office hours per week: 5.

COURSE FORMAT: Lectures and problem sets. ENROLLMENT: 20-40 majors and non-majors. THEME OF COURSE: Course involves analysis of bodies which are not in motion. REQUIRED TEXT: Vector Mechanics for Engineers, (2nd Ed.) by Beer and Johnston. TYPICAL WEEKLY ASSIGNMENTS: 50 pages of reading and 5-10 problems. EXAMS: Midterm, a comprehensive final, and 2-3 quizzes based on the problems assigned in problem sets. OTHER COURSE REQUIREMENTS: A notebook of all course work can be kept for extra credit. GRADING PHILOSOPHY: Exams - 40%, Quizzes - 30%, Problem Assignments (lab) - 25%, and Miscellaneous (attendance, attitude, notebook) - 5%. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITE: Math 62.

ENGINEERING MECHANICS 12: DYNAMICS

PROFESSOR: William Chasko. Office hours per week: 4.

COURSE FORMAT: Lectures and problem sets. ENROLLMENT: 20-40 majors and non-majors. THEME OF COURSE: Derivation of important formulas and application of formulas to problem are stressed in problem sets. REQUIRED TEXT: Vector Mechanics for Engineers, (2nd Ed.) by Beer and Johnston. TYPICAL WEEKLY ASSIGNMENTS: 15 pages of reading and two 10-15 problem set assignments. EXAMS: Midterm, a comprehensive final, and 1-4 quizzes for immediate check-up on classwork. GRADING PHILOSOPHY: Exams - 40%, Quizzes - 30%, Lab Assignments - 25%, Miscellaneous - 5%. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: E.Mch. 11, Math 100.

ENGINEERING MECHANICS 13: STRENGTH OF MATERIALS

PROFESSOR: William Chasko. Office hours per week: 4.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 20-40 majors. THEME OF COURSE: To learn about properties and uses of materials in engineering applications. The course introduces concepts needed in later engineering design courses. REQUIRED TEXT: Mechanics of Materials, (2nd Ed.) by E.P. Popov. TYPICAL WEEKLY ASSIGNMENTS: 2 chapters to read and 10-15 problems to solve. EXAMS: Midterm, a comprehensive final, and 2-3 quizzes. GRADING PHILOSOPHY: Exams - 40%, Quizzes - 30%, and Assigned Problems - 25%, Miscellaneous - 5%. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: E. Mch. 11.

ENGINEERING MECHANICS 810: BASIC MECHANICS

PROFESSOR: William Chasko. Office hours per week: 4.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 15-25 majors. THEME OF COURSE: Applications of Vectors and Physics Principles to solution of Engineering Mechanics problems. REQUIRED TEXT: Introduction to Mechanics, (2nd Ed.) by Levinson. TYPICAL WEEKLY ASSIGNMENTS: 10-15 homework problems plus 1 chapter of reading. EXAMS: 1 midterm, a comprehensive final, 2-3 quizzes. COURSE REQUIREMENT: Notebook of problems. GRADING PHILOSOPHY: Exams - 40%, Quizzes - 30%, Homework and Lab Assignments - 25% and Miscellaneous - 5%. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITE: Math 801.

ENGINEERING MECHANICS 811: ELEMENTARY MECHANICS

PROFESSOR: William Chasko. Office hours per week: 5.

COURSE FORMAT: Lectures. ENROLLMENT: 15-30 majors and non-majors. THEME OF COURSE: To learn elementary mechanics principles such as free-body diagrams and equilibrium sets. REQUIRED TEXT: Introduction to Mechanics by Levinson. TYPICAL WEEKLY ASSIGNMENTS: 10-15 pages of reading and 2 or 3 problem sets. EXAMS: 1 midterm, a comprehensive final, and 2-4 quizzes every two weeks. GRADING PHILOSOPHY: Exams - 40%, Quizzes - 30%, Assigned Problems - 25% and Attendance and Participation - 5%. TENTATIVELY SCHEDULED FOR: Winter Term, Spring Term, and Summer Term. PREREQUISITE: Math 801.

ENGINEERING MECHANICS 811: ELEMENTARY MECHANICS.

PROFESSOR: Fred Yoder. Office hours per week: By appointment.

COURSE FORMAT: Lectures, discussions, problem solving. ENROLLMENT: 20 majors and non-majors. THEME OF COURSE: The student will gain a basic insight into the field of engineering mechanics (specifically the portion called "statics"). Topics will include forces, moments, resultants, equilibrium of force systems, friction, centroids, and moment of inertia of areas. REQUIRED TEXT: Statics and Strength of Materials by Levinson. TYPICAL WEEKLY ASSIGNMENTS: 20 pages of reading. Problems are assigned with each reading, approximately 4-12 problems. EXAMS: 2 midterms and a non-comprehensive final. GRADING PHILOSOPHY: Each exam is 30% of the final grade. Attendance and class participation is 10%. PREREQUISITE: Math 801.

ENGINEERING MECHANICS 813: STRENGTH AND PROPERTIES OF MATERIALS

PROFESSOR: William Chasko. Office hours per week: 4.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 15-25 majors. THEME OF COURSE: Learning strengths of various materials and proper material selections for design purposes and design applications. REQUIRED TEXT: Mechanics of Materials, (2nd Ed.) by Levinson. TYPICAL WEEKLY ASSIGNMENTS: 5-10 problems and 1 to 1 1/2 chapters of reading. EXASM: 1 midterm exam, a comprehensive final, 2 quizzes. COURSE REQUIREMENTS: Notebook of all course material. GRADING PHILOSOPHY: Exams - 40%, Quizzes - 30%, Lab Assignments - 25%, and Miscellaneous - 5%. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITE: E.Mch. 811.

***ENGLISH 4 IS DESIGNED FOR STUDENTS WITH DEFICIENT PREPARATION TO MEET COLLEGE WRITING REQUIREMENTS. THIS COURSE WILL NOT BE ACCEPTABLE AS SATISFYING THE COMMUNICATIONS CATEGORY OF THE BACCALAUREATE DEGREE.**

Although English 4 is open to all students, it is especially designed to precede or supplement English 10. Enrollment is based upon the English Placement Test scores. Some students may be scheduled for English 4 (3 credits), and others for English 4 (1 credit). This latter course is a Writing Clinic and will be scheduled concurrently with English 10, and the instructor will meet students individually by appointment.

**English 4 - 1 credit, English 4 - 3 credits, English 10 and English 20 are tentatively scheduled for all terms, but this is dependent upon the demand for the courses.

*ENGLISH 4: BASIC WRITING SKILLS

PROFESSOR: Doris Coldren. Office hours per week: 6.

COURSE FORMAT: Lectures; discussions, group and class; and writing activities. ENROLLMENT: 21 majors and non-majors. THEME OF COURSE: To express meaningful experiences through substantive paragraphs of ten to fifteen sentences in Edited American English. REQUIRED TEXT: Creating Compositions, (2nd Ed.) by Harvey S. Weiner and a dictionary. TYPICAL WEEKLY ASSIGNMENTS: 15-20 pages of reading; sentence and paragraph practice; exercises in grammar, usage, and punctuation; drafted and edited paragraph. EXAMS: The final exam is an in-class paragraph to show proficiency in composition. This paragraph will be read by an impartial member of the English Department. Short tests and quizzes are given periodically to ascertain mastery of grammar, usage, and punctuation. PAPERS: Paragraphs: 2 description, 3 narrative, and 2 illustration. GRADING PHILOSOPHY: Final grade is based upon the accumulated grades from compositions, short tests and quizzes, attendance and participation: 75%, 20%, and 5% respectively. TENTATIVELY SCHEDULED FOR: See **.

ENGLISH 10: COMPOSITION AND RHETORIC I

PROFESSOR: Dr. Dennis F. Brestensky. Office hours per week: 3 and by appointment.

COURSE FORMAT: Lectures, discussions, in-class exercises, and other small group interactions. ENROLLMENT: 25-35 majors and non-majors. THEME OF COURSE: Instruction in prewriting and the composing process, description, narration, and major forms of exposition with a review of the conventions of standard written English. REQUIRED TEXTS: *Harbrace Handbook*, (8th Ed.) by Hodges and *Patterns of Exposition*, (5th Ed.) by Decker. TYPICAL WEEKLY ASSIGNMENTS: One essay and one section from *Handbook* to read. EXAMS: Tests are dependent upon the progress of the class. PAPERS: 5-7 with an approximate length of 400-500 words. Format and content requirements vary. Topics are derived from class discussions and experiences, the readings, and student interests. OTHER COURSE REQUIREMENTS: Opportunities for extra credit are available. GRADING PHILOSOPHY: Final grade is determined by the average of the grades on all the written papers. Class participation, attendance, and extra credit work may affect the average. TENTATIVELY SCHEDULED FOR: See **. PREREQUISITE: Satisfactory English Placement test scores or English 4 (3 credits or concurrent with English 4 (1 credit).

ENGLISH 10: COMPOSITION AND RHETORIC I

PROFESSOR: Doris Coldren. Office hours per week: 6.

COURSE FORMAT: Lectures and discussions, class and group. ENROLLMENT: 25-35 majors and non-majors. THEME OF COURSE: To write descriptive, narrative, and expository prose through study in the prewriting and composing processes and a review of the conventions of standard written English. REQUIRED TEXTS: *Patterns of Exposition*, (6th Ed.) by Decker and *Harbrace College Handbook*, (8th Ed.) by Hodges and Whitten. TYPICAL WEEKLY ASSIGNMENTS: 15 pages of reading and 4-8 exercises in grammar, vocabulary, or mechanics. EXAMS: Short tests and quizzes are determined by the participation and mastery of the classwork. PAPERS: 5-7. The length of each assignment will vary, but the average length will be 500 words. GRADING PHILOSOPHY: Final grade is based upon the accumulated grades from composition, short tests and quizzes, attendance and participation: 75%, 20%, and 5% respectively. TENTATIVELY SCHEDULED FOR: See **. PREREQUISITE: Satisfactory English Placement Test scores or English 4 (3 credits) or concurrent English 4 (1 credit).

ENGLISH 10: COMPOSITION AND RHETORIC I

PROFESSOR: Robert Gillingham. Office hours per week: 3 and by appointment.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25-35 majors and non-majors. THEME OF COURSE: Combines instruction in pre-writing and the composing process, description narration, and the major forms of exposition with a systematic review of the conventions of standard written English. REQUIRED TEXTS: Patterns of Exposition, (5th Ed.) by Decker, Harbrace College Handbook, (8th Ed.) by Hodges and Whitten, and a dictionary. TYPICAL WEEKLY ASSIGNMENTS: 20 pages of reading. EXAMS: Short tests are given to ascertain the mastery of grammar, usage, and punctuation. PAPERS: 7. The length of each varies. A student is expected to write about 4000 words in English 10. GRADING PHILOSOPHY: Final grade is to be determined by instructor and class on the first day of class. TENTATIVELY SCHEDULED FOR: See **. PREREQUISITE: Satisfactory English Placement Test scores or English 4 (3 credits) or concurrent English 4 (1 credit).

ENGLISH 10: COMPOSITION AND RHETORIC I

PROFESSOR: Dr. Evelyn Hovanec. Office hours per week: 6.

COURSE FORMAT: Lectures, discussions, writing assignments, and grammar exercises. ENROLLMENT: 25-35 majors and non-majors. THEME OF COURSE: Skill in the handling of the major rhetorical techniques and in expository and argumentative writing, plus a review of grammar, punctuation, and a cursory examination of the elements of style. REQUIRED TESTS: (These may change over the next year.) Patterns of Exposition, (5th Ed.) by Randall Decker, Harbrace College Handbook, (7th Ed.) by Hodges and Whitten, and Harbrace College Workbook by Sheila Graham. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading. Daily exercises and/or writing assignments. Usually one major writing assignment per week. EXAMS: Midterm and a non-comprehensive final. Quizzes on the readings assigned. PAPERS: 7. approximate length 500 words. Topics are derived by mutual consent of students and instructor. Papers include title sheet, thesis and outline, and text of paper. GRADING PHILOSOPHY: Grade is determined by the average of quizzes, midterm exam grade, final exam grade, and the grades received on the 7 papers. All of these items are averaged to arrive at a final grade. TENTATIVELY SCHEDULED FOR: See **. PREREQUISITE: Satisfactory English Placement Test scores or English 4 (3 credits) or concurrent with English 4 (1 credit).

ENGLISH 10: COMPOSITION AND RHETORIC I

PROFESSOR: Dr. Albert Skomra. Office hours per week: 6.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25-35 majors and non-majors. THEME OF COURSE: Basic review of grammar with emphasis on writing short expository themes. Emphasis on techniques, style, syntax of writing skills. REQUIRED TEXTS: Patterns of Exposition by Decker, dictionary, and Harbrace Handbook by Hodges. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading, one writing assignment. EXAMS AND PAPERS: 1 midterm and a non-comprehensive final. Tests or quizzes on vocabulary and theme analysis. 6-7 one-page papers. GRADING PHILOSOPHY: Students earn points for writing assignments, quizzes and examinations. These points are then translated into a final letter grade. TENTATIVELY SCHEDULED FOR: See **. PREREQUISITE: Satisfactory English Placement Test scores or English 4 (3 credits) or concurrent with English 4 (1 credit).

ENGLISH 20: COMPOSITION AND RHETORIC II

PROFESSOR: Dr. Dennis F. Brestensky. Office hours per week: 3 and by appointment.

COURSE FORMAT: Lectures, discussions, in-class exercises, and small group interactions. ENROLLMENT: 25-35 majors and non-majors. THEME OF COURSE: Investigative and problem-solving writing dealing with the problems of man's responsibilities with emphasis on analysis, argument, the use of various types of sources, and the continuation of English 10 skills. REQUIRED TEXT: The Responsible Person by Howard and Tracz. TYPICAL WEEKLY ASSIGNMENTS: One essay to read and informatl, ungraded assignments. EXAMS: Tests and quizzes dependent on the progress of the class. PAPERS: Five, each qpproximately 850 words in length. Format and content requirements vary. Topics are derived from class discussion and experiences, the readings, and student interests. Opportunities for extra credit are available. GRADING PHILOSOPHY: Final grade is determined by the average of the grades on all written papers. Class participation, attendance, and extra credit work may affact the average. TENTATIVELY SCHEDULED FOR: See **. PREREQUISITE: English 10.

ENGLISH 20: COMPOSITION AND RHETORIC II

PROFESSOR: Doric Coldren. Office hours per week: 6.

COURSE FORMAT: Lectures, discussions, small group and class; demonstrations. ENROLLMENT: 25-35 majors and non-majors. THEME OF COURSE: To continue the composition work begun in English 10 and to emphasize analysis and argument supported by investigation. REQUIRED TEXTS: The Penn State Reader, dictionary, and Harbrace Handbook, (8th Ed.) by Hodges. EXAMS: Tests and quizzes dependent upon the progress of the class. PAPERS: Five, each about 850 words. GRADING PHILOSOPHY: Final grade is based upon the accumulated grades from compositions, short tests and quizzes, attendance and participation: 75%, 20% and 5% respectively. TENTATIVELY SCHEDULED FOR: See **. PREREQUISITE: English 10.

ENGLISH 20: COMPOSITION AND RHETORIC II

PROFESSOR: Robert Gillingham. Office hours per week: 3 and by appointment.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25-35 majors and non-majors. THEME OF COURSE: Continues the work of English 10, but gives particular attention to analysis and argument wth practice in using various kinds of sources. REQUIRED TEXTS: *The Penn State Reader*, dictionary, and *Harbrace Handbook*, (8th Ed.) by Hodges (optional). EXAMS: Short tests and quizzes depend on progress of class. PAPERS: 5, each about 850 words minimum. GRADING PHILOSOPHY: To be determined by instructor and class on the first day. TENTATIVELY SCHEDULED FOR: See **. PREREQUISITE: English 10.

ENGLISH 20: COMPOSITION AND RHETORIC II

PROFESSOR: Dr. Albert Skomra. Office hours per week: 6.

COURSE FORMAT: Lectures, discussions and simulations. ENROLLMENT: 20-25 majors and non-majors. THEME OF COURSE: Students are exposed to argumentative prose material which focuses on a problem or an issue. The students, after sufficient discussion, are asked to write papers after those reviewed. REQUIRED TEXT: The Penn State Reader. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading. PAPERS: 3 two-page papers from personal experiences, a four-page argumentative paper, and a six-to-ten-page investigative paper. GRADING PHILOSOPHY: Students earn points, based upon 100, for writing assignments and a comprehensive final - 30. These points are translated into letter grade: 90-100 = A, 80-89 = B, 70-79 = C, 60-69 - D, below 59 = F. TENTATIVELY SCHEDULED FOR: See **. PREREQUISITE: English 10.

ENGLISH 101: INTRODUCTION TO LITERATURE

PROFESSOR: Doris Coldren. Office hours per week: 3 and by appointment.

COURSE FORMAT: Lectures, discussions, films, small group discussions, and video-taping. ENROLLMENT: 15-35 non-majors. This survey course meets the requirement of an elective in literature or humanities. THEME OF COURSE: To read different genres (short story, novel, poetry and drama) and to find universality in literature. TYPICAL WEEKLY ASSIGNMENT: Approximately 2 1/2 weeks allocated for each genre. Assignments are made at the beginning of the term to allow time to read long assignments. EXAMS AND PAPERS: A project or paper for each genre. Video-taping of a one-act play is required in drama; a project for The Odyssey; and the papers are 2-3 typed pages. If possible, the class attends a play and poetry lectures. GRADING PHILOSOPHY: Since this course is an appreciation-type course, a student's progress is based upon his personal involvement in the class: attendance; class, group and individual participation, initiative and growth. Each genre's project or paper is one-fourth of the grade.

ENGLISH 113: INTRODUCTION TO VERSE WRITING

PROFESSOR: Dr. Albert Skomra. Office hours per week: 10.

COURSE FORMAT: Discussions and other presentations. ENROLLMENT: 15-35 majors and non-majors. THEME OF COURSE: Writing of original poetry and its analysis. REQUIRED TEXTS: Skills of the Poet by Wilbur S. Scott and An Introduction to Poetry, (4th Ed.) by X.J. Kennedy. TYPICAL WEEKLY ASSIGNMENTS: Roughly, students will write 3 poems. EXAMS AND PAPERS: No formal testing. Students will write poems, will keep an informal journal and attend class. GRADING PHILOSOPHY: It is a qualitative and quantitative system; i.e., a student must write a specific number of acceptable poems to earn a specific letter grade.

ENGLISH 132: AMERICAN LITERATURE FROM THE CIVIL WAR TO WORLD WAR I

PROFESSOR: Dr. Evelyn A. Hovanec. Office hours per week: 6.

COURSE FORMAT: Lectures, discussions and A.V. materials. ENROLLMENT: 15-35 per section, majors and non-majors. THEME OF COURSE: The Ideas and Movements of Realism and Naturalism in 19th century, as well as 19th century humor and local color. REQUIRED TEXTS: The Realistic Movement in American Writing; Red Badge of Courage by Stephen Crane; The Octopus by Frank Norris. TYPICAL WEEKLY ASSIGNMENT: 100-150 pages of reading. EXAMS AND PAPERS: Midterm, final, one 5-6 page paper or 10-15 minute project, usually on a major writer of the period, also possible quizzes or oral report. GRADING PHILOSOPHY: Comprehensive final 25%; midterm 25%; paper or project 25%; class discussion, participation, oral reports 25%. TENTATIVELY SCHEDULED FOR: Winter Term.

ENGLISH 133: MODERN AMERICAN LITERATURE TO WORLD WAR II

PROFESSOR: Dr. Evelyn A. Hovanec. Office hours per week: 6.

COURSE FORMAT: Lectures, discussions, and A.V. materials. ENROLLMENT: 30-35 majors and non-majors. THEME OF COURSE: To survey the major American literary figures and movements in the first half of the Twentieth Century. REQUIRED TEXTS: Twentieth Century American Writing by Stafford, The Old Man and The Sea by Hemingway, and one other novel, frequent changes. TYPICAL WEEKLY ASSIGNMENTS: 100-150 pages of reading. Quizzes on readings. EXAMS: Midterm and a comprehensive final. Short quizzes on reading assignments. PAPERS: 1 or 2, each approximately 500 words in length. Short, informal papers outlining biography, works, and a review of one author's works. GRADING PHILOSOPHY: Grade is derived from quiz grades and test grades, grades on papers or project, and class attendance and participation. TENTATIVELY SCHEDULED FOR: Winter Term.

ENGLISH 196: ESSENTIALS OF ANGLO-AMERICAN FOLKLORE

(See FOLKLORE 196)

ENGLISH 826: REPORT WRITING

PROFESSOR: Robert Gillingham. Office hours per week: 3 and by appointment.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25-30 majors and non-majors. THEME OF COURSE: Interpretation of statistical data and writing of technical reports: (1) application-resume; (2) letters; (3) memo; (4) informal reports; (5) process description; (6) formal report; and (7) minutes. REQUIRED TEXT: Clear Technical Reports by William A. Damerst. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading. PAPERS: 8. Length varies according to the type of report. GRADING PHILOSOPHY: Final grade is determined by averaging the letter grades of the reports. TENTATIVELY SCHEDULED FOR: Spring Term and Summer Term. PREREQUISITE: English 4 or English 10.

ENGLISH 826: REPORT WRITING

PROFESSOR: Dr. Evelyn Hovanec. Office hours per week: 6.

COURSE FORMAT: Lectures, classroom writing experiences, and demonstrations. ENROLLMENT: 25-30 majors, usually mining. THEME OF COURSE: Style and format of technical writing and reports, usually geared toward two-year mining students. REQUIRED TEXT: Reporting Technical Information by Houp and Pearsall. TYPICAL WEEKLY ASSIGNMENTS: 60 pages of reading. Exercises and short writing assignments are required on a daily basis. EXAMS: 3 exams, one given every two or three weeks. Quizzes on reading assignments and class demonstrations. PAPERS: 5, each approximately 500 words. Papers will be written in technical style and format. OTHER COURSE REQUIREMENT: Class attendance and participation in discussion. GRADING PHILOSOPHY: Grades are based on quiz average and grades on writing assignments and chapter tests. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: English 4 or English 10.

ENGLISH 826: REPORT WRITING

PROFESSOR: Dr. Albert Skomra. Office hours per week: 10.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25-30. THEME OF COURSE: Technical writing and its particular form as used by business and industry, also interpretation of statistical data and writing of technical reports. REQUIRED TEXTS: Clear Technical Reports by William A. Damerst, 30 Days to a More Powerful Vocabulary by Funk and Lewis, and Writing Communications in Business and Industry by Nelda R. Lawrence. TYPICAL WEEKLY ASSIGNMENTS: One small writing assignment, chapter to read and vocabulary quizzes on vocabulary. Five or six papers of 1-2 pages on topics practically slanted to business and industrial problems. GRADING PHILOSOPHY: Students earn points on writing assignments (5), quizzes (2), and exams (2) which are translated into a letter grade. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: English 4 or English 10.

FINANCE 807: BANKING AND CORPORATE FINANCE

PROFESSOR: Richard Cupelli. Office hours per week: 7.

COURSE FORMAT: Lectures, discussions, and problems. ENROLLMENT: 30 majors. THEME OF COURSE: Essentials of financial management with integration of overall administration of firm: determining amounts, sources, timing, costs, and allocations of funds; managing assets and expansion, and a study of stocks and bonds. REQUIRED TEXT: Administrative Financial Management by Bradley. TYPICAL WEEKLY ASSIGNMENTS: 35-40 pages of reading, problems for each session, and cases periodically. EXAMS: 2 midterms, a non-comprehensive final, and homework collected counting as quiz (5 times). PROJECT: Extensive financial analysis of a Fortune 500 corporation. GRADING PHILOSOPHY: 4 scheduled exams = 80%, problems-projects, cases = 15%, and class contribution = 5%. TENTATIVELY SCHEDULED FOR: Fall Term and Summer Term.

FOLKLORE 196 (English 196): ESSENTIALS OF ANGLO-AMERICAN FOLKLORE

PROFESSOR: Eliot Singer. Office hours per week: 6.

COURSE FORMAT: Lectures. ENROLLMENT: 35 non-majors. THEME OF COURSE: To understand art and literature as social process by focusing on Anglo-American folklore. Creativity, transmission, style, theme, function and others will be considered in relation to proverbs, riddles, jokes, stories, ballads, songs, and material culture. REQUIRED TEXTS: Folk Song U.S.A. by Loman and Loman, Pissin' in the Snow and Other Ozark Folk Tales by Randolph, Patterns of Material Culture of the Eastern U.S. by Glassie (optional), and A Guide to Fieldwork by Goldstein (optional). TYPICAL WEEKLY ASSIGNMENTS: 100 pages of reading. 1-2 page assignments on weekly topics. PAPER: A 15-page, problem-oriented paper based on fieldwork or library research. OTHER COURSE REQUIREMENTS: Field trips and fieldwork. GRADING PHILOSOPHY: Term paper = 50%, short assignments = 50%. TENTATIVELY SCHEDULED FOR: Fall Term.

FRENCH 1: ELEMENTARY FRENCH

PROFESSOR: Donald Correal. Office hours per week: 2.

COURSE FORMAT: Labs and other. ENROLLMENT: 12-25 non-majors. THEME OF COURSE: The emphases are placed upon (a) reading, (b) writing, and (c) speaking elementary French. REQUIRED TEXT: Contacts by Valette et Valette. TYPICAL WEEKLY ASSIGNMENTS: Reading by doing exercises relating to grammar three times. Conversation is emphasized in class. EXAMS: 1 midterm and a non-comprehensive final. 1 quiz every 2 weeks. GRADING PHILOSOPHY: Quizzes, test and class participation determine grade. Quizzes are given most emphasis. TENTATIVELY SCHEDULED FOR: Fall Term.

FRENCH 2: ELEMENTARY FRENCH

PROFESSOR: Donald Correal. Office hours per week: 2.

COURSE FORMAT: Labs and other. ENROLLMENT: 12-25 non-majors. THEME OF COURSE: The emphases are placed upon (a) reading, (b) writing and (c) speaking elementary French. REQUIRED TEXT: Contacts by Valette et Valette. TYPICAL WEEKLY ASSIGNMENTS: Reading, doing exercises relating to grammar three times. Conversation emphasized in class. EXAMS: 1 midterm and a final non-comprehensive exam. 1 quiz every two weeks. GRADING PHILOSOPHY: Quizzes, tests and class participation determine grade. Quizzes are given most emphasis. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Two years of high school French.

FRENCH 3: INTERMEDIATE FRENCH

PROFESSOR: Donald Correal. Office hours per week: 2.

COURSE FORMAT: Labs and other. ENROLLMENT: 12-25 non-majors. THEME OF COURSE: Grammar, reading, composition; oral and aural work. REQUIRED TEXT: Contacts by Valette et Valette. TYPICAL WEEKLY ASSIGNMENTS: Reading, doing exercises relating to grammar three times per week. Conversation emphasized in class. EXAMS: 1 midterm and a final non-comprehensive exam. 1 quiz every two weeks. GRADING PHILOSOPHY: Quizzes, tests and class participation determine grade. Quizzes are given most emphasis. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: French 2.

FRENCH 140: FRENCH NOVEL IN TRANSLATION

PROFESSOR: Donald Correal. Office hours per week: 3.

ENROLLMENT: 30-35, predominantly non-majors. THEME OF COURSE: An appreciation of classic French novels (plays) with "give and take" discussions. REQUIRED TEXTS: (All in English) Gargantua, Rabelais; The Miser, Moliere; Candide, Voltaire; Eugenie Grandet, Balzac; Three Tales, Flaubert; Germinal, Zola; The Plague, Camus. TYPICAL WEEKLY ASSIGNMENT: 150-200 pages of reading. GRADING PHILOSOPHY: 2 open-book tests (most emphasis), class participation. Midterm and a comprehensive final. TENTATIVELY SCHEDULED FOR: Spring Term.

GEOGRAPHY 19: GEOGRAPHY OF MAN'S ENVIRONMENT

PROFESSOR: Edward J. Gursky. Office hours per week: By appointment.

COURSE FORMAT: Lectures and labs. ENROLLMENT: Non-majors. THEME OF COURSE: A discussion of the world's natural environment with an in-depth probing into landform features and processes, climate, soils, and resources. REQUIRED TEXTS: Physical Geography, A Lab Manual by Hidore and Roberts. Supplementary reading: CRM--Physical Geography Today and Introduction to Physical Geography by Strahler. TYPICAL WEEKLY ASSIGNMENT: Two lab exercises and one-two chapters of reading. EXAMS: One midterm and a non-comprehensive final. OTHER COURSE REQUIREDMENT: A field trip(s), optional. GRADING PHILOSOPHY: Lab--30%; Midterm--30%; Final--30%; and Classwork--10%. TENTATIVELY SCHEDULED FOR: Spring Term.

GEOGRAPHY 20: MAN'S WORLD: AN INTRODUCTION TO MODERN HUMAN GEOGRAPHY

PROFESSOR: Edward J. Gursky. Office hours per week: By appointment.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25-35 non-majors. THEMEM OF COURSE: A regional survey of the modern world: culture, technological and environmental perception, population, resources, economics, and locational analysis of human organization. REQUIRED TEXT: Introduction to Geography, 5th Ed., by Glendinning. TYPICAL WEEKLY ASSIGNMENT: 2 chapters of reading. EXAMS AND PAPERS: 1 midterm and a non-comprehensive final. One ten-page paper requiring maps. OTHER COURSE REQUIREMENT: A paper will be presented in class for discussion. GRADING PHILOSOPHY: Paper--30%; Midterm--30%; Final--30%; Classwork--10%. TENTATIVELY SCHEDULED FOR: Winter Term.

GEOLOGICAL SCIENCE 20: OUR EARTH

PROFESSOR: Edward J. Gursky. Office hours per week: By appointment.

COURSE FORMAT: Lectures, labs, and field trip(s). ENROLLMENT: 25-35 majors and non-majors. THEME OF COURSE: This is an introduction to the earth processes, materials, and landscapes that comprise our planet, and the practical work consists of field trips, the study of maps, rocks, and dynamic models. The course also serves as an introduction to geologic experimentation. REQUIRED TEXTS: Physical Geology--A Laboratory Manual by Dallmeyer. (Physical Geology by Leet and Judson is a supplementary text which is optional.) TYPICAL WEEKLY ASSIGNMENTS: Two lab exercises and two chapters of reading. EXAMS: Midterm exam(s) and a non-comprehensive final. OTHER COURSE REQUIREDMENT: Field trip(s). GRADING PHILOSOPHY: Lab--30%; Midterm--30%; Final--30%; and Classwork--10%. TENTATIVELY SCHEDULED FOR: Fall Term and Spring Term.

GEOLOGICAL SCIENCE 21: EARTH HISTORY

PROFESSOR: Edward J. Gursky. Office hours per week: By appointment.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 30-35 majors and non-majors. THEME OF COURSE: The basic topic for this course is the evolution of the earth; the pertinent subjects are the changing patterns of the mountains, lowlands and seas, and the evolution of living organisms. Practical work consists of field trips and studies of geologic maps, problems, and fossils. REQUIRED TEXT: Evolution of the Earth by Dott and Batten. TYPICAL WEEKLY ASSIGNMENTS: 2-3 chapters of reading and a lab exercise. EXAMS: 1 midterm and a non-comprehensive final. OTHER COURSE REQUIREMENT: Field trip(s). GRADING PHILOSOPHY: Lab--30%; Midterm--30%; Final--30%; Classwork--10%. TENTATIVELY SCHEDULED FOR: Winter Term.

HEALTH EDUCATION 46: INTRODUCTION TO HEALTH ASPECTS OF HUMAN SEXUALITY

PROFESSOR: Paul B. Agate. Office hours per week: Not limited

COURSE FORMAT: Lectures. ENROLLMENT: 35 majors and non-majors. THEME OF COURSE: Male and Female Reproductive Systems, Pregnancy, Childbirth, Contraception, Sexual Dysfunction and Abnormalities, Veneral Diseases, and Sexual Behavior and Attitudes. REQUIRED TEXT: Human Sexuality by Katchadourian. TYPICAL WEEKLY ASSIGNMENTS: Ten pages of reading. EXAMS: 1 midterm exam and a non-comprehensive final. GRADING PHILOSOPHY: Examinations and participation. TENTATIVELY SCHEDULED FOR: All Terms.

HEALTH EDUCATION 303: EMERGENCY CARE

PROFESSOR: Paul B. Agate. Office hours per week: Not limited.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 25 majors and non-majors. THEME OF COURSE: Emergency care and first aid: skeletal, shock, wounds, cardio-pulmonary resuscitation, extremes of heat and cold, and poisoning. REQUIRED TEXT: Emergency Medical Guide by Henderson. TYPICAL WEEKLY ASSIGNMENT: [illegible]0 pages of reading. EXAMS AND PAPERS: 1 midterm, a noncomprehensive final, and lab practicums. GRADING PHILOSOPHY: Examinations-written and practical application. TENTATIVELY SCHEDULED FOR: Spring Term.

HISTORY 18: MODERN EUROPE 1500-1815

PROFESSOR: Michael J. Lechnar. Office hours per week: 10.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 30 majors and non-majors. THEME OF COURSE: A survey of European civilization from the Renaissance through the Napoleonic Era. Emphasis is placed on an examination of major topics such as the Protestant Reformation, the Age of Louis XIV, the Enlightenment, and the French Revolution. REQUIRED TEXTS: Europe: From the Renaissance to Waterloo, 3rd Edition, by Robert Ergang. TYPICAL WEEKLY ASSIGNMENTS: Approximately 75 pages of reading in the text and approximately 800 pages (2 books) of additional readings over the length of the term. EXAMS: 2 midterms and a comprehensive final. PAPER: Two 4-6 page book reviews based on the additional readings. GRADING PHILOCOPHY: 3 exams-3/4 of grade; 2 book reviews-1/4 of grade. A borderline grade is judged on the student's class participation and attendance. There are no arbitrary grade cuts for non-attendance. TENTATIVELY SCHEDULED FOR: Fall Term.

HISTORY 19: MODERN EUROPE, 1815 TO THE PRESENT

PROFESSOR: Michael J. Lechnar. Office hours per week: 10.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 30 majors and non-majors. THEME OF COURSE: A survey of European civilization from the Congress of Vienna to the present. Emphasis is placed on an examination of major topics such as the Industrial Revolution, Unification of Germany, European Imperialism, origins of World War I, the rise of the Fascist powers, and Europe and the Cold War. REQUIRED TEXT: Europe: Since Waterloo, 3rd Edition, by Ergang. TYPICAL WEEKLY ASSIGNMENTS: Approximately 75 pages of reading in the text and approximately 800 pages (2 books) of additional readings over the length of the course. EXAMS: 2 midterms and a comprehensive final. PAPERS: Two 4-6 page book reviews based on the additional readings. GRADING PHILOSOPHY: 3 exams-3/4 of grade; 2 book reviews-1/4 of grade. A borderline grade is judged on the student's class participation and attendance. There are no arbitrary grade cuts for non-attendance. TENTATIVELY SCHEDULED FOR: Winter Term.

HISTORY 20: HISTORY OF THE UNITED STATES TO 1865

PROFESSOR: Michael J. Lechnar. Office hours per week. 10.

COURSE FORMAT: Lecture and discussion. ENROLLMENT: 30 majors and non-majors. THEME OF COURSE: A survey of the development of America within a historical context from the colonial times through the Civil War. Though structured in chronological fashion, the emphasis in the course is placed on an examination of major topics such as causes of the American Revolution, Westward Expansion and the effects of the Civil War on American society. REQUIRED TEXTS: The Federal Nation, Hicks, Mowry and Burke. TYPICAL WEEKLY ASSIGNMENTS: Approximately 60 pages of reading in the text and 700 pages of additional reading during the term. EXAMS AND PAPERS: 2 exams and a comprehensive final. Two book reviews on collateral reading (4-6 pages each). GRADING PHILOSOPHY: 3 exams-3/4 of grade; 2 book reviews-1/4 of grade. A borderline grade is judged on the student's class participation and attendance. There are no arbitrary grade-cuts for non-attendance. TENTATIVELY SCHEDULED FOR: All Terms.

HISTORY 21: HISTORY OF UNITED STATES SINCE 1865

PROFESSOR: Michael J. Lechnar. Office hours per week: 10.

COURSE FORMAT: Lecture and discussion. ENROLLMENT: 30 majors and non-majors. THEME OF COURSE: The survey of America's development within a historical context from the Civil War to the present is structured chronologically, but the emphasis in the course is placed on an examination of major topics such as: the rise of organized labor, the Progressive (reform) Movement, and the causes for the United States' entry into World War II. REQUIRED TEXTS: The American Nation, Hicks, Mowry, and Burke. TYPICAL WEEKLY ASSIGNMENTS: Approximately 60 pages of reading in the text and approximately 700 pages of additional readings (two books) over the length of the term. EXAMS AND PAPERS: 2 exams and a comprehensive final. Two book reviews on the outside readings (each 4-6 pages). GRADING PHILOSOPHY: 3 exams--3/4 of grade; 2 book reviews--1/4 of grade. A borderline grade is judged on the students' class participation and attendance. There are no arbitrary grade-cuts for non-attendance. TENTATIVELY SCHEDULED FOR: All Terms.

HUMAN DEVELOPMENT 200: EMPIRICAL INQUIRY IN HUMAN DEVELOPMENT

PROFESSOR: Dr. Nancy Treat. Office hours per week: 4½ and other hours by appointment.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 30 majors and non-majors. THEME OF COURSE: Introduction to research methods in human development including various research designs, simple analyses, and group research projects. REQUIRED TEXT: Check with bookstore or instructor before purchasing any materials. Research Methods in Social Relations by Selltiz, Wrightsman, and Cook. TYPICAL WEEKLY ASSIGNMENTS: 1 term project due 9th week, preceded by a progress report at 5th week. EXAMS: 2 midterms, a non-comprehensive final and 5 quizzes on definitions. PAPER: 6-10 page report of research project. OTHER COURSE REQUIREMENT: Progress report at end of 5th week. GRADING PHILOSOPHY: Research project-1/3 of grade; exams and quizzes-2/3 of grade. TENTATIVELY SCHEDULED FOR: Spring Term.

HUMANITIES 1: VALUES OF WESTERN CULTURAL HERITAGE

PROFESSOR: Doris Coldren. Office hours per week: 6.

COURSE FORMAT: Discussions, slide/tape presentations, group projects/discussions. ENROLLMENT: 35 majors and non-majors. THEME OF COURSE: To find the universality of truth, goodness, and beauty in scholarly writings and to relate these concepts in contemporary Western Culture. REQUIRED TEXTS: Subject to change. Check with bookstore or instructor prior to purchasing any materials. TYPICAL WEEKLY ASISGNMENTS: 50-80 pages of reading. EXAMS: 2 midterms and a non-comprehensive final. GRADING PHILOSOPHY: Final grade is determined by exam scores, class participation, and attendance. TENTATIVELY SCHEDULED FOR: All Terms.

HUMANITIES 1: VALUES OF WESTERN CULTURAL HERITAGE

PROFESSOR: A. Donald Correal. Office hours per week: 3.

COURSE FORMAT: Discussions. ENROLLMENT: 35 majors and non-majors. THEME OF COURSE: The pursuit of truth, goodness, and beauty. REQUIRED TEXTS: The Way Things Are, Lucretius; Science and Human Values, Bronowski; Fathers and Children, Turgenev; The Aeneid, Virgil; The Divine Comedy, Dante; The Stranger, Camus; The Symposium, Plato; Selected Poems, Keats; A Portrait of the Artist as a Young Man, Joyce; Death in Venice and Seven Other Stories, Mann; The Ethics of Aristotle (selected portions of each of the above). TYPICAL WEEKLY ASSIGNMENT: 20-80 pages of reading. EXAMS: 1 midterm and 1 non-comprehensive final. GRADING PHILOSOPHY: Based on contribution of valid discussion (open book), attendance, and essay (open book) exams. TENTATIVELY SCHEDULED FOR: All Terms.

HUMANITIES 1: VALUES OF THE WESTERN CULTURAL HERITAGE

PROFESSOR: Robert Gillingham. Office hours per week: 6-8.

COURSE FORMAT: Discussion. ENROLLMENT: 35 non-majors. THEME OF COURSE: To discuss the meaning of truth, goodness, and beauty as great thinkers and writers perceived them and as they relate to the student. REQUIRED TEXTS: The Way Things Are, Lucretius; Science and Human Values, Bronowski; Aeneid, Virgil; and portions of others listed in first Humanities 1 entry. TYPICAL WEEKLY ASSIGNMENTS: 50-80 pages. EXAMS: Three major exams consisting each of identifications, personal opinion, and strict analysis of the meaning of the text. No oral exams are permitted. A ten-point quiz on each text, aiming at compelling the reading of the text, is required. (Very easy test). GRADING PHILOSOPHY: Quizzes are averaged with three major exams to determine final grade. Class participation is important. TENTATIVELY SCHEDULED FOR: All Terms.

HUMANITIES 1: VALUES OF THE WESTERN CULTURAL HERITAGE

PROFESSOR: Dr. Evelyn Hovanec. Office hours per week: 6.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 30-35 majors and non-majors. THEME OF COURSE: Reading of classics of western literature and discussion of the values and ideas of western culture as expressed in these. REQUIRED TEXTS: Science and Human Values by Bronowski, Fathers and Children by Turgenev, Ethics by Aristotle, Aeneid by Virgil. The Stranger by Camus, Selected Poems by Keats, A Portrait of the Artist as a Young Man by Joyce, and Death in Venice by Mann. TYPICAL WEEKLY ASSIGNMENTS: 100-150 pages of reading. Quizzes on the assigned readings. EXAMS: 3. 1 every three weeks or so; a non-comprehensive final and quizzes on assigned readings. PAPERS: 2 or 3 informal writings (paragraphs). OTHER COURSE REQUIREMENTS: Class attendance and active participation in discussions are mandatory. A journal for the ten weeks and 1 class presentation are also required. GRADING PHILOSOPHY: Grades are derived from quizzes, 3 test grades, paragraphs, class attendance and class participation. TENTATIVELY SCHEDULED FOR: Spring Term.

HUMANITIES 1: VALUES OF THE WESTERN CULTURAL HERITAGE

PROFESSOR: Dr. Marion S. Mazgaj. Office hours per week: 2.

COURSE FORMAT: Lectures. ENROLLMENT: 40 students per section. THEME OF COURSE: The nature of man in the light of his cultural heritage. The need of grounding contemporary man in his cultural past. REQUIRED TEXTS: The Way Things Are, Lucretius; Science and Human Values, Bronowski; Stranger, Campus; Fathers and Children, Turgenev; Hell, Dante; Ethics, Aristotle; Symposium, Plato; Aeneid, Virgil. TYPICAL WEEKLY ASSIGNMENTS: 50-75 pages of reading. EXAMS: Midterm, comprehensive final. GRADING PHILOSOPHY: Students have an option of taking an oral or a written examination. Student's performance is judged on the basis of his participation in class discussions and his midterm exam and his final exam. Midterm 50% and final exam 50%. Student's effort is taken into consideration. TENTATIVELY SCHEDULED FOR: All Terms.

HUMANITIES 2: SHAPING OF THE MODERN MIND

PROFESSOR: Doris Coldren. Office hours per week: 6.

COURSE FORMAT: Discussions, slide/tape presentations, group projects/discussions. ENROLLMENT: 35 majors and non-majors. THEME OF COURSE: To show how the influential literary and philosophical writings from the Ancient Greek, Medieval, Renaissance, and Modern Periods have contributed to contemporary Western culture. REQUIRED TEXTS: Subject to change. Check with bookstore or instructor prior to purchasing books. TYPICAL WEEKLY ASSIGNMENTS: Reading assignments for each session usually average 25-35 pages. EXAMS: 2 midterms and a non-comprehensive final. GRADING PHILOSOPHY: Final grade is determined by exam scores, class participation and attendance. TENTATIVELY SCHEDULED FOR: All Terms.

HUMANITIES 2: SHAPING OF THE MODERN MIND

PROFESSOR: A. Donald Correal. Office hours per week: 2-3.

COURSE FORMAT: Discussions. ENROLLMENT: 35 major and non-majors. THEME OF COURSE: Feelings, thoughts, and ideas of particular periods (Greek, The Middle Ages, The Renaissance, and The Modern) which have contributed to the shaping of the modern mind. REQUIRED TEXTS: Books pertaining to the Greek classical tradition, The Middle Ages, The Renaissance, and The Modern. Examples of readings include: Prometheus Bound, Aeschylus; Great Dialogues, Plato; Poetics, Aristotle; The Divine Comedy, Dante; Three Treatises, Luther; The Tragedy of Doctor Faustus, Marlow; Philosophical Essays, Descartes; Civilization and Its Discontents, Freud; Waiting for Godot, Beckett. TYPICAL WEEKLY ASSIGNMENTS: Students have approximately 30 reading assignments. EXAMS: 2 or 3 essay exams and 2 or 3 quizzes. GRADING PHILOSOPHY: Written essays and exams are important. Class participation and class attendance are also important. TENTATIVELY SCHEDULED FOR: All Terms.

HUMANITIES 2: SHAPING OF THE MODERN MIND

PROFESSOR: Robert Gillingham. Office hours per week: 6-8.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 35 majors and non-majors. THEME OF COURSE: To examine past cultural and philosophical experiences as they influence modern thought and values: The Greeks, Medieval Christianity, The Renaissance, and The Moderns. REQUIRED TEXTS: Subject to change. Check with bookstore or instructor prior to purchasing books. TYPICAL WEEKLY ASSIGNMENTS: 50-80 pages of reading. EXAMS: Form of examination varies with class and instructor and is determined during the first class section. Methods open to traditional exams, experiential projects, or the contract. GRADING PHILOSOPHY: Final grade determination is made after the form of examination is selected. Class participation is important. TENTATIVELY SCHEDULED FOR: All Terms.

HUMANITIES 2: SHAPING OF THE MODERN MIND

PROFESSOR: Dr. Marion S. Mazgaj. Office hours per week: 2.

COURSE FORMAT: Lectures. ENROLLMENT: 40 students per section. THEME OF COURSE: The nature of art. Relationship of art to life. Application of art and philosophy to life. A need for balance between the rational and lived-in man. REQUIRED TEXTS: The Birth of Tragedy, by Nietzsche; Prometheus Bound, Aeschylus; Oedipus the King, Sophocles; Meditations, Descartes; The Death of Ivan Ilych, Tolstoy; Man's Fate, Malraux. TYPICAL WEEKLY ASSIGNMENTS: 50-75 pages of reading. EXAMS: Midterm and comprehensive examination. Student's performance is judged on the basis of his participation in class discussions and his midterm and his final examinations. Midterm-50% and final exam-50%. Student's effort is taken into consideration. TENTATIVELY SCHEDULED FOR: All Terms.

HUMANITIES 101: MODERN SCIENCE AND HUMAN VALUES

PROFESSOR: A. Donald Correal. Office hours per week: 3.

COURSE FORMAT: Discussions. ENROLLMENT: 30 non-majors. THEME OF COURSE: This course asks the student to examine ideas rather than to memorize facts. Each student's interpretation should be personal--his reaction to the work--and valid--his conclusions related to evidence in the work. REQUIRED TEXTS: Science and Human Values by Bronowski, The Physicists by Durenmatt, The Tragedy of Dr. Faustus by Marlow, On Aggression by Lorenz, Of Machines and Men by Lewis, The Firmament of Time by Eiseley, Six Plays by Ibsen, Walden Two by Skinner. TYPICAL WEEKLY ASSIGNMENTS: 100-150 pages of reading. EXAMS: 1 or 2 midterms; no final. GRADING PHILOSOPHY: Tests are weighed heavily and consideration is given to class contributions. TENTATIVELY SCHEDULED FOR: Summer Term.

HUMANITIES 198-A: THE LITERATURE AND LORE OF BITUMINOUS MINING

PROFESSORS: Dr. Evelyn Hovanec, Dr. Dennis Brestensky, and Dr. Albert Skomra
Office hours per week: 6.

COURSE FORMAT: Lectures, discussions, field research. ENROLLMENT: 35 majors and non-majors. THEME OF COURSE: Survey of the literature and lore of bituminous mining, including field research for the purpose of examining the experiences and values of a people having a mining background and tradition. REQUIRED TEXTS: Course Reader, prepared and bought at campus, and Germinal by Zola. TYPICAL WEEKLY ASSIGNMENTS: 60-80 pages of reading. EXAMS: Midterm and a comprehensive final. Quizzes on assigned readings. PAPERS: 2, each 500-700 words. Format for proposal and report will be given in class. OTHER COURSE REQUIREMENTS: 1 field research and interview project. An oral report of this will be presented in class. GRADING PHILOSOPHY: Grade is derived from tests (midterm and final), quizzes, papers, and project, as well as class attendance and participation. TENTATIVELY SCHEDULED FOR: Fall Term and Spring Term.

INDIVIDUAL AND FAMILY STUDIES 16: EFFECTIVE INTERPERSONAL SKILLS

PROFESSOR: Louis Ridgley. Office hours per week: By appointment.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 17-20 non-majors. THEME OF COURSE: To introduce components of the interpersonal competence model, increase self-awareness, improve awareness of one's own feelings in interaction. Interaction awareness is sharpened. REQUIRED TEXT: Notes To Myself by Hugh Prather. Syllabus and Assignments. TYPICAL WEEKLY ASSIGNMENT: 1-4 pages written about self-perception using selected readings. EXAMS AND PAPERS: 7 or 8 papers (1-4 pages). GRADING PHILOSOPHY: Students grades are based on attendance, completion of papers assigned and class participation. TENTATIVELY SCHEDULED FOR: Spring Term.

INDIVIDUAL AND FAMILY STUDIES 129: INTRODUCTION TO INDIVIDUAL AND FAMILY DEVELOPMENT

PROFESSOR: Dr. Nancy Treat. Office hours per week: 4½ and by appointment.

COURSE FORMAT: Lectures, discussions, and multi-media presentations. ENROLLMENT: 35 majors and non-majors. THEME OF COURSE: Individual development within the family context as members move through their life cycles from multidisciplinary and multi-professional prospectives. REQUIRED TEXTS: Subject to change. Check with bookstore or instructor before purchasing materials. Life-Span: Individual and Family Development by Goldberg and Deutsch and Student Resource Manual for Introduction to Individual and Family Development by Deutsch and Goldberg. TYPICAL WEEKLY ASSIGNMENTS: 40-50 pages of reading. 4 "Creative Exercises" spaced throughout the term. EXAMS: 3 midterms and a quiz during last session. GRADING PHILOSOPHY: Exams and quiz-60%, "Creative Exercises"-40%. TENTATIVELY SCHEDULED FOR: Fall Term.

INDIVIDUAL AND FAMILY STUDIES 329: INFANCY AND EARLY CHILDHOOD

PROFESSOR: Dr. Nancy Treat. Office hours per week: 4½ and by appointment.

COURSE FORMAT: Lectures, discussions, and multi-media presentations. ENROLLMENT: 35 majors and non-majors. THEME OF COURSE: Development of the infant and young child from multi-disciplinary and multi-professional perspective. REQUIRED TEXTS: Subject to change. Check with bookstore or instructor before purchasing materials. Child Development and Socialization by Brophy and Study Guide Manual for Infancy and Early Childhood by Deutsch, Kurtz, and Neisworth. TYPICAL WEEKLY ASSIGNMENTS: 50-60 pages of reading. 4 sets of "creative exercises" spaced throughout the term. EXAMS: 3 midterms and quiz last day of class. GRADING PHILOSOPHY: Exams-60%, "Creative Exercises"-40%. TENTATIVELY SCHEDULED FOR: Fall Term, Winter Term. PREREQUISITES: IFS 129, Psy. 2 or Soc. 1.

INDIVIDUAL AND FAMILY STUDIES 339: LATER CHILDHOOD AND ADOLESCENCE

PROFESSOR: Dr. Nancy Treat. Office hours per week: 4½ and by appointment.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 35 majors and non-majors. THEME OF COURSE: Psychological development and social problems related to adolescence. REQUIRED TEXTS: Adolescence (2nd. Ed.), by F.P. Rice, Studies in Adolescence by R.E. Grinder, and reserved readings in the library. TYPICAL WEEKLY ASSIGNMENTS: Approximately 50-75 pages. EXAMS AND PAPERS: 2 midterm exams and a non-comprehensive final exam. A 10-15 page paper--topics vary. GRADING PHILOSOPHY: Final grade is usually based on equal weighing of midterms, final, and paper. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITES: IFS 129, Psy. 2 or Soc. 1.

INDIVIDUAL AND FAMILY STUDIES 349: ADULT DEVELOPMENT AND AGING

PROFESSOR: Dr. Nancy Treat. Office hours per week: 4½ and by appointment.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 30 majors and non-majors. THEME OF COURSE: Psychological and social aspects of childhood and aging. REQUIRED TEXTS: Subject to change. Check with bookstore or instructor before purchasing materials. Human Development: The Adult Years and Aging by Kennedy. Also, reserve readings in the library. TYPICAL WEEKLY ASSIGNMENTS: 50-60 pages of reading. EXAMS: 2 midterms, a non-comprehensive final, 5 quizzes on reading assignments spaced throughout the term. PAPER: A 6-10 page paper. Three options: Research project report, paper for delivery at a public meeting (e.g. P.T.A.), or paper analyzing adult development of fictional character in a book. GRADING PHILOSOPHY: Term project-1/3 of grade; exams and quizzes-2/3 of grade. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITES: IFS 129, Psy. 2 or Soc. 1.

INDIVIDUAL AND FAMILY STUDIES 399: INDEPENDENT STUDY IN INDIVIDUAL AND FAMILY STUDIES

PROFESSOR: Dr. Nancy Treat. Office hours per week: 4½ and by appointment.

COURSE FORMAT: Independent study and library and laboratory research. THEME OF COURSE: Independent study of problems of human development by arrangement with instructor. TENTATIVELY SCHEDULED FOR: Fall Term, Winter Term and Spring Term.

INDUSTRIAL ENGINEERING 315: INDUSTRIAL ORGANIZATION AND ADMINISTRATION

PROFESSOR: William Chasko. Office hours per week: 3-4.

COURSE FORMAT: Lectures. ENROLLMENT: 30 majors and non-majors. THEME OF COURSE: To learn about the fundamental principles of management and to learn about the simpler problems of organization and operation. REQUIRED TEXT: Organization for Production by Roscoe. TYPICAL WEEKLY ASSIGNMENTS: 2-3 problem sets, consisting of questions at the end of chapters. EXAMS: Midterm, comprehensive final and 2 or 3 quizzes. PROJECTS: Several term projects. GRADING PHILOSOPHY: Exams-40%; Quizzes-30%; Projects-25%; Miscellaneous-5% (attitude and attendance). TENTATIVELY SCHEDULED FOR: Spring Term. Students registered in industrial engineering may not schedule this course.

INDUSTRIAL ENGINEERING 311: MANUFACTURING MATERIALS AND PROCESSES

PROFESSOR: William Chasko. Office hours per week: 3-4.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 10-20 majors. THEME OF COURSE: Learning about basic materials such as woods, metals, ceramics, etc. REQUIRED TEXT: Technology of Industrial Material by Kazanas, Klein and Lindbeck. TYPICAL WEEKLY ASSIGNMENTS: 1 chapter, 10-20 lab assignments. EXAMS: Midterm, a comprehensive final, 2-3 quizzes. COURSE REQUIREMENTS: Several field trips to plants. GRADING PHILOSOPHY: Exams-40%; Quizzes-30%; Lab assignments-25%; Miscellaneous-5% (attitude and attendance). TENTATIVELY SCHEDULED FOR: Spring Term.

INDUSTRIAL ENGINEERING 815: PRODUCTION DESIGN.

PROFESSOR: William E. Chasko. Office per week: 5.

COURSE FORMAT: Lectures and labs and plant tours. ENROLLMENT: 10-25 predominantly Mechanical Engineering Technology majors. THEME OF COURSE: Introduction to Tooling Methods and Design. REQUIRED TEXT: Tool Design by Donaldson, et. al. TYPICAL WEEKLY ASSIGNMENTS: 2 chapters in textbook, lab assignments on questions at end of chapters, 2-3 design projects. EXAMS: Midterm, a comprehensive final and 2-3 quizzes. GRADING PHILOSOPHY: Dssign projects and lab assignments-40%; exams-30%; quizzes-25%; miscellaneous -5% (attitude and attendance). TENTATIVELY SHEDULED FOR: Winter Term. PREREQUISITES: E.G. 803, I.E. 812.

LAW ENFORCEMENT AND CORRECTIONS 111: POLICE AND THE COURTS

PROFESSOR: William H. Soisson. Office hours per week: 4.

COURSE FORMAT: Discussions. ENROLLMENT: 25 per section, predominantly majors. THEME OF COURSE: The course approaches the problems involved in organizing and managing a municipal police department. Instruction is by discussion and problem-solving, in which the class divides into groups which solve situational problems and orally present solutions. REQUIRED TEXT: Municipal Police Administration. TYPICAL WEEKLY ASSIGNMENTS: 20 pages, 3 situation problems. EXAMS: Midterm and a comprehensive final. OTHER COURSE REQUIREMENTS: Each student will present his group's solution to at least one problem. GRADING PHILOSOPHY: Midterm and final are the bulk of the grade. In borderline cases, participation and attitude will be considered. TENTATIVELY SCHEDULED FOR: Fall Term.

LAW ENFORCEMENT AND CORRECTIONS 321: INITIAL FIELD PROJECT IN ADMINISTRATION OF JUSTICE.

PROFESSOR: William H. Soisson. Office hours per week: 4.

COURSE FORMAT: Discussions and other methods. ENROLLMENT: Majors. THEME OF COURSE: Through placement with an agency in administration of justice, the student gains extensive practical insight into the American system of justice and its workings. EXAMS: None. PAPER: One 15-page (approximate) required on description and analysis of the student's experience during the field project. GRADING PHILOSOPHY: Extensive interviews by the instructor as well as the required paper will be the basis for the grade. PREREQUISITE: Com.D. 7; LEC 111, 221. The course must be taken prior to seventh-term standing.

LAW ENFORCEMENT AND CORRECTIONS 440: FUNDAMENTAL TECHNIQUES OR SCIENTIFIC CRIMINAL INVESTIGATION

(Previously LEC 212)

PROFESSOR: William H. Soisson. Office hours per week: 4.

ENROLLMENT: 25 per section, predominantly mixed. THEME OF COURSE: Methods of criminal investigation in as practical a way as possible. Instruction is chiefly by practical application of techniques of gathering and presenting evidence, from the time of commission of a mock crime at Penn State Campus through a mock trial at end of course. REQUIRED TEXT: Criminal Investigation by O'Hara. TYPICAL WEEKLY ASSINGMENTS: 50 pages as background for practical classroom exercises and field work. Some out-of-class time is required in preparation of a mock crime for other students. EXAMS: A non-comprehensive final. OTHER COURSE REQUIREMENTS: Gathering, organizing evidence and presenting it before a mock court as a criminal investigation would do. GRADING PHILOSOPHY: Final grade is determined by instructor's observation of student's performance in the classroom and during the practical phases of the course. TENTATIVELY SCHEDULED FOR: Fall Term. Advanced standing student register through Continuing Education.

LAW ENFORCEMENT AND CORRECTIONS 470: LAW OF CRIMES AND CORRECTIONS

PROFESSOR: William H. Soisson. Office hours per week: 4.

COURSE FORMAT: Discussions. ENROLLMENT: 30 majors and non-majors. THEME OF COURSE: Emphasis is on the origins and function of American criminal law and the reasoning by which it is developed and applied. The crime code and specific crimes are analyzed. REQUIRED TEXT: To be announced. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading. EXAMS: Midterm and a final. OTHER COURSE REQUIREMENTS: Each student will give a five-minute talk analyzing one criminal case he has studied. GRADING PHILOSOPHY: The five-minute talk, the two tests, and the classroom participation are the bases for grading. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITES: LEC 111; Pl.Sc. 1 or 3.

LIBERAL ARTS 100: EFFECTIVE PERSONAL AND CAREER DECISION MAKING

PROFESSOR: Louis E. Ridgley, Jr. Office hours per week: By appointment.

COURSE FORMAT: Discussions and audio-visual aids. ENROLLMENT: 20-25 majors and non-majors. THEME OF COURSE: Concepts and procedures for making effective personal/career decisions. The role of attitudes, values, and interaction skills in preparing for a career. TEXT: Effective Personal and Career Decision Making by Bartsch and others. TYPICAL WEEKLY ASSIGNMENTS: Sessions are primarily discussion and exercises based upon experience and interest. Some exercises will be completed outside of class. GRADING PHILOSOPHY: Final grades will be determined by exercises completed and class participation. Second-through seventh-term standing recommended.

MANAGEMENT 800: PRINCIPLES OF MANAGEMENT

PROFESSOR: Richard Cupelli. Office hours per week: 7.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 35 majors and non-majors. THEME OF COURSE: Theoretical bases in understanding managerial decision-making techniques and concepts, attention to social sciences in predicting human behavior, and practical application in real life. REQUIRED TEXT: Management: Decisions and Behavior by Richards and Greenlaw. TYPICAL WEEKLY ASSIGNMENTS: 50 pages of reading and cases. EXAMS: 2 midterms and a non-comprehensive final. OTHER COURSE REQUIREMENT: Cases. GRADING PHILOSOPHY: 3 exams = 75%, cases = 15%, and class contribution = 10%. TENTATIVELY SCHEDULED FOR: Fall Term and Spring Term.

MANAGEMENT 801: PRINCIPLES OF MANAGEMENT

PROFESSOR: Richard Cupelli. Office hours per week: 7.

COURSE FORMAT: Lectures, discussions, and problems. ENROLLMNET: 25 majors, THEME OF COURSE: Production management as related to resources used to produce goods and services and the decision-making approach to solve or minimize operational problems. REQUIRED TEXT: Production and Operations Management by Chase and Aquilano. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading and assigned problems for each session. EXAMS: 2 midterms, a non-comprehensive final and quizzes. OTHER COURSE REQUIREMENT: Collection of assigned problems - five times. GRADING PHILOSOPHY: 4 exams = 80% and problems = 20%. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Mgmt. 800.

MANAGEMENT 802: SUPERVISORY MANAGEMENT

PROFESSOR: Richard Cupelli. Office hours per week: 7.

COURSE: FORMAT: Lectures and discussions. ENROLLMENT: 15 majors. THEME OF COURSE: Directed toward first line supervisor and emphasizes the behavior and analytical thinking required by the supervisor for effective leadership. REQUIRED TEXT: How Managers Motivate: The Imperative of Supervision by Dowling and Sayles. TYPICAL WEEKLY ASSIGNMENTS: 50 pages of reading and a Grievance-Arbitration. EXAMS: 5 quizzes. PAPER: 5 two-page papers. OTHER COURSE REQUIREMENTS: Contract Negotiation Simulation Game (1), Cases, Arbitration, and Contract Negotiations. GRADING PHILOSOPHY: 5 short exams = 40%, grievance = 20%, contract = 20% and discussion = 20%. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Mgmt. 800.

MARKETING 800: PRINCIPLES OF MARKETING

PROFESSOR: Richard Cupelli. Office hours per week: 7.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 30 majors and non-majors. THEME OF COURSE: To acquaint business student with terminology, concepts, and principles associated with marketing and to understand marketing system as a consumer, citizen, marketer and decision maker. REQUIRED TEXT: Marketing by Heskett. TYPICAL WEEKLY ASSIGNMENTS: 50 pages of reading and case analysis. EXAMS: 3 midterms and a non-comprehensive final. OTHER COURSE REQUIREMENT: Case analyses. GRADING PHILOSOPHY: 4 exams = 80%, cases and class contribution = 20%. TENTATIVELY SCHEDULED FOR: Winter Term.

MARKETING 801: PRINCIPLES OF MARKETING

PROFESSOR: Faculty.

COURSE FORMAT: Case Analysis. ENROLLMENT: 30 majors. THEME OF COURSE: Actual company problems are analyzed on an individual basis as well as group basis utilizing the principles of marketing developed in Marketing 800. TYPICAL WEEKLY ASSIGNMENT: Groups of 4 or 5 are responsible for analyzing cases with one member designated the leader who becomes the presenter once a week. Each member will give 2 group presentations. In addition to group cases, 3 or 4 individual cases will be assigned. EXAMS: None. GRADING PHILOSOPHY: Grades are assigned by averaging the individual case groups; and group case grades are determined by the individual's presentation within the group. Group participation is also a determinant. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Mktg. 800.

MARKETING 802: PROMOTION MANAGEMENT

PROFESSOR: Richard Cupelli. Office hours per week: 7.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 20 majors. THEME OF COURSE: Analysis of persuasive communication in marketing. Focus on promotion element of marketing mix - personal selling, advertising, and sales promotion as a strategy formulation. REQUIRED TEXT: Promotional Strategy by Engel, Wales, and Warshaw. TYPICAL WEEKLY ASSIGNMENTS: 50 pages of reading and major promotional campaign. EXAMS: 1 midterm and a non-comprehensive final. PAPER: A major promotional campaign. GRADING PHILOSOPHY: 2 exams = 40%, 1 campaign = 40%, and class contribution = 20%. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Mktg. 801.

REMEDIAL MATHEMATICS--BACCALAUREATE

These courses are designed to provide a student with the necessary prerequisites for the higher-level mathematics courses.

MATHEMATICS 000: BASIC MATHEMATICAL SKILLS

PROFESSOR: Carol Carter. Office hours per week: By appointment.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25 majors and non-majors. THEME OF COURSE: To provide an opportunity for review of the basic skills in mathematics: cardinal numbers, fractions, decimals, ratio and proportion, percent, measurement/conversion, integers, and tables and graphs. To prepare for the competency test which will be given four times during the academic year. REQUIRED TEXTS: Business Mathematics by Harshbarger and Student Supplement: Graphs and Tables by Harshbarger. TYPICAL WEEKLY ASSIGNMENTS: Assigned homework for each session. EXAMS: 3 one-hundred point midterms, a 200-point comprehensive final, and 9 ten-point quizzes (a quiz at the end of each chapter). GRADING PHILOSOPHY: 60% of total is passing, 70%-79% = C, 80%-89% = B, 90%-100% = A. TENTATIVELY SCHEDULED FOR: All Terms.

MATHEMATICS 000: BASIC MATHEMATICAL SKILLS

PROFESSOR: Paul Williams. Office hours per week: 7 1/2

COURSE FORMAT: Lectures, discussions, and labs. ENROLLMENT: 20 non-majors. THEME OF COURSE: To become proficient in solving problems with fractions, decimals, percents, proportions, graphs, and conversions. All students who study in this course will take the basic mathematical skills re-take exam. REQUIRED TEXTS: Business Mathematics by Harshbarger, Tables and Graphs by Saunders and Co., and Supplementary Guide by Harshbarger. TYPICAL WEEKLY ASSIGNMENTS: Exercises assigned for each session. EXAMS: 2 midterms, a comprehensive final, and 5-6 quizzes. GRADING PHILOSOPHY: Grading is based on a percentage scale with 10% increments. TENTATIVELY SCHEDULED FOR: All Terms.

MATHEMATICS 4: INTERMEDIATE ALGEBRA

PROFESSOR: Dr. Nicholas Ford. Office hours per week: 3.

COURSE FORMAT: Lectures. ENROLLMENT: 20 non-majors. THEME OF COURSE: The course is remedial in nature. The student will learn to work with signed numbers, algebraic expressions, and simple equations. REQUIRED TEXT: Introductory Algebra by Wood (workbook for text). TYPICAL WEEKLY ASSIGNMENT: About 50-100 short problems, cover 1 chapter each 2 weeks. EXAMS: A comprehensive final, 4 closed-book exams. GRADING PHILOSOPHY: 2/3 - 4 exams weighed as 100 points; 1/3 - 1 final exam weighed as 200 points. There are no retests. Make-up exams are given only for substantiated excuses. Exams are curved on basis of previous experiences. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITE: 1/2 unit of algebra.

MATHEMATICS 4: INTERMEDIATE ALGEBRA

PROFESSOR: Robert Formentelli. Office hours per week: 2 or by appointment.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25-30 non-majors. THEME OF COURSE: Particular topics are operations with signed numbers and algebraic expressions, special products and factoring, solutions of first degree equations, exponents, radicals, and complex numbers. The student can expect a good beginning course in algebra. REQUIRED TEXTS: Introductory Algebra (3rd Ed.) by J.P. Wood and Introductory Algebra Workbook (3rd Ed.) by J.P. Wood. TYPICAL WEEKLY ASSIGNMENTS: 25-30 pages of reading and 5-6 problem sets. EXAMS: 3 midterms and a comprehensive final. OTHER COURSE REQUIREMENT: 4 sets of selected problems. GRADING PHILOSOPHY: Determination of grade: midterms = 60%; problems = 20%; and final exam = 20%. Term average: A = 90%-100%; B = 80%-89%; C = 70%-79%; D = 60%-69%; and F = 0%-59%. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITE: 1/2 unit of algebra.

MATHEMATICS 5: COLLEGE ALGEBRA

PROFESSOR: Dr. Nicholas Ford. Office hours per week: 3.

COURSE FORMAT: Lectures. ENROLLMENT: 20 non-majors. THEME OF COURSE: Second course in a two-course sequence designed to provide the student with a foundation in algebra. Continuation of algebraic principles that were begun in Math. 4 now include quadratic equations, linear equations, and inequalities. REQUIRED TEXTS: Introductory Algebra (3rd Ed.) by J.P. Wood. TYPICAL WEEKLY ASSIGNMENTS: 20 pages of reading and an assigned problem set for each session (i.e., 30-45 problems per week). EXAMS: 2 midterms, a non-comprehensive final, and weekly quizzes. GRADING PHILOSOPHY: Each exam is curved on basis of past experience. Final grade is determined on basis of 25% for each exam and 25% for quiz average, the equivalent of an exam after the lowest score is dropped. There are no retests and no make-ups for the quizzes without substantiated excuses. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: 1 unit of algebra or Math 4.

MATHEMATICS 5: COLLEGE ALGEBRA

PROFESSOR: Robert Formentelli. Office hours per week: 2 and/or by request.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 20-25 non-math majors. THEME OF COURSE: Particular topics are the Binomial Theorem, graphing, linear and quadratic equations, simultaneous equations, polynomials, inequalities, proportionality, and synthetic division. The student can expect to gain a better algebraic background to use in other math courses. REQUIRED TEXTS: Introductory Algebra (3rd Ed.) by J.P. Wood and Introductory Algebra Workbook (3rd Ed.) by J.P. Woof. TYPICAL WEEKLY ASSIGNMENTS: 25-30 pages of reading and 5-6 problem sets. EXAMS: 3 midterms and a comprehensive final. OTHER COURSE REQUIREMENTS: 4 sets of selected problems. GRADING PHILSOOPHY: Determination of grade: midterms = 60%; selected problems = 20%; final = 20%. Term average: 90%-100% = A; 80%-89% = B; 70%-79% = C; 60%-69% = D; 0-59% = F. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: 1 unit of algebra or Math. 4.

MATHEMATICS 5: COLLEGE ALGEBRA

PROFESSOR: Paul Williams. Office hours per week: 7 1/2

COURSE FORMAT: Lecteurs and discussions. ENROLLMENT: 25 non-majors. THEME OF COURSE: To become proficient in solving linear equations, quadratic equations, verbal problems, and ratio and proportion problems. REQUIRED TEXT: Introductory Algebra by J.P. Wood. TYPICAL WEEKLY ASSIGNMENTS: Homework exercises are assigned daily. EXAMS: 3 exams and 4-5 quizzes. GRADING PHILOSOPHY: Grading is based on a percentage scale with 10% increments. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: 1 unit of algebra or Math. 4.

MATHEMATICS 6: PLANE GEOMETRY

PROFESSOR: Melvin Breakiron. Office hours per week: 5.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 20 non-majors. THEME OF COURSE: Functions; uses of logarithms; solution of triangles; trigonometric equations; identities. REQUIRED TEXT: Plane Trigonometry With Tables (4th Ed.) by Heineman. GRADING PHILOSOPHY: Grades will be determined by averaging three tests and final. The final test is weighed twice as much as the other tests. TENTATIVELY SCHEDULED FOR: Spring Term and Summer Term. PREREQUISITES: 1 1/2 units of algebra or Math. 5; 1 unit of geometry.

MATHEMATICS 6: PLANE GEOMETRY

PROFESSOR: Robert Formentelli. Office hours per week: 2 or by appointment

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 20 non-majors. THEME OF COURSE: To prepare students with the necessary trigonometric background to pursue advanced mathematics: functions, identities, graphing, logarithms, inverse functions, solution of right and oblique triangles, and tables. REQUIRED TEXT: Plane Geometry With Tables (4th Ed.) by Heineman. TYPICAL WEEKLY ASSIGNMENT: 25-30 pages of reading and approximately 5 problem sets. EXAMS: 3 midterms and a comprehensive final. OTHER COURSE REQUIREMENT: 4 sets of selected problems. GRADING PHILOSOPHY: Determination of grade: midterms = 60%; problems = 20%; and final exam = 20%. Term average: A = 90-100%; B = 80%-89%; C = 70%-79%; D = 60%-69%; and F = 0%-59%. TENTATIVELY SCHEDULED FOR: Spring Term and Summer Term. PREREQUISITE: 1 1/2 units of algebra or Math. 5; 1 unit of geometry.

MATHEMATICS 6: PLANE TRIGONOMETRY

PROFESSOR: Paul Williams. Office hours per week: 7 1/2.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25 non-majors. THEME OF COURSE: To become proficient in solving problems which involve trigonometry and logarithms. REQUIRED TEXT: Plane Trigonometry With Tables (4th Ed.) by Heineman. TYPICAL WEEKLY ASSIGNMENT: Homework exercises assigned daily. EXAMS: 3 exams and 4 or 5 quizzes. GRADING PHILOSOPHY: Grading is based on a percentage scale with 10% increments. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITES: 1 1/2 units of algebra or Math. 5; 1 unit of geometry.

MATHEMATICS 10: PRECALCULUS MATHEMATICS

PROFESSOR: Melvin Breakiron. Office hours per week: 3-5

COURSE FORMAT: Lectures. ENROLLMENT: 20-30 majors and non-majors. THEME OF COURSE: Emphasis on algebra and trigonometry as preparation for calculus. Remedial course. REQUIRED TEXT: Algebra and Trigonometry by Rosenbach, Whitman, Moskovitz. TYPICAL WEEKLY ASSIGNMENTS: Problems - approximately 15-25/class. EXAMS: 3-4 midterm exams, 1 comprehensive final and approximately 3 quizzes. GRADING PHILOSOPHY: Grades based on test scores. TENTATIVELY SCHEDULED FOR: Fall Term and Summer Term. PREREQUISITES: 1 unit of algebra, 1/2 unit of trigonometry.

MATHEMATICS 10: PRECALCULUS MATHEMATICS

PROFESSOR: Dr. Nicholas S. Ford. Office hours per week: 8.

COURSE FORMAT: Lectures. ENROLLMENT: Non-majors. THEME OF COURSE: Refresher course in algebra and trigonometry. Should not be student's first exposure. Preparatory course for calculus sequences. REQUIRED TEXT: College Algebra and Trigonometry by Rosenbach et. al. TYPICAL WEEKLY ASSIGNMENTS: Cover 6 sections; assigned homework will be about 30 problems. EXAMS: 1 comprehensive final, 3 class-period exams, all to be done in class-"closed book." GRADING PHILOSOPHY: Student is judged on basis of 3 in-class exams (60%) and a comprehensive final (40%). Exams are curved on basis of previous experience. TENTATIVELY SCHEDULED FOR: Fall Term and Summer Term. PREREQUISITES: 1 unit of algebra, 1/2 unit of trigonometry.

MATHEMATICS 10: PRECALCULUS MATHEMATICS

PROFESSOR: Francis H.S. Hall. Office hours per week: 3.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25 non-majors. THEME OF COURSE: Basic algebra and trigonometry needed for calculus courses. REQUIRED TEXT: College Algebra With Trigonometry by Rosenbach, Whitman. TYPICAL WEEKLY ASSIGNMENTS: 20 pages and 3 problem sets. EXAMS: 2 midterm exams, 1 final, weekly tests. GRADING PHILOSOPHY: Equal weight for each exam and average of quizzes. TENTATIVELY SCHEDULED FOR: Fall Term and Summer Term. PREREQUISITES: 1 unit of algebra, 1/2 unit of trigonometry.

MATHEMATICS 10: PRECALCULUS MATHEMATICS

PROFESSOR: Paul Williams. Office hours per week: 7 1/2.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25, predominantly four-year business majors. THEME OF COURSE: To become proficient in solving problems which involve algebra, and business applications. This course is intended to prepare four-year business sutdents for Math 20. REQUIRED TEXT: College Algebra With Trigonometry by Rosenbach et. al. TYPICAL WEEKLY ASSIGNMENT: Homework exercises assigned for each session. EXAMS: 2 midterms, a comprehensive final, and 4-5 quizzes. GRADING PHILOSOPHY: Grading is based on a percentage scale with 10% increments. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITES: 1 unit of algebra. 1/2 unit of trigonometry.

MATHEMATICS 17: FINITE MATHEMATICS

PROFESSOR: Dr. Nicholas S. Ford. Office hours per week: 8.

COURSE FORMAT: Lectures. ENROLLMENT: 15 non-majors. THEME OF COURSE: Introduction to useful but non-analytical topics such as logic, combinatorics, probability, and linear programming. Some applications to business and biology. Designed for the Liberal Arts student. REQUIRED TEXT: Finite Mathematics With Applications by Goodman and Ratti. TYPICAL WEEKLY ASSIGNMENTS: 15 pages of reading and problem sets, ususally 30 exercises. EXAMS: 3 midterms and a non-comprehensive final. OTHER COURSE REQUIREMENT: Several assignments to be graded. GRADING PHILOSOPHY: Each exam is curved on basis of past experience. Grade is determined as follows: 25% for each exam. There are no re-tests, and make-up exams are given only for substantiated excuses. TENTATIVELY SCHEDULED FOR: Spring Term.

MATHEMATICS--BACCALAUREATE

Math. 20-21 and Math. 61-62 are two sequences taught at Fayette Campus which discuss differential and integral calculus. They differ in the areas where calculus is applied; the applications are from business and the physical or engineering sciences, respectively. A student wishing to change from one sequence to another should consult with the head of the mathematics department.

MATHEMATICS 20: TECHNIQUES OF CALCULUS I

PROFESSOR: Paul Williams. Office hours per week: 7 1/2.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25 majors. THEME OF COURSE: To become proficient in solving differential calculus problems which are relevant to the business field. REQUIRED TEXT: Introductory Mathematical Analysis for Students of Business and Economics, Haeussler and Paul. TYPICAL WEEKLY ASSIGNMENTS: Homework exercises are assigned daily. EXAMS: 3 exams, and 4-5 quizzes. GRADING PHILOSOPHY: Grading is based on a percentage scale with 10% increments. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: a satisfactory score on the algebra proficiency examination or in the case of an unsatisfactory score, the course(s) necessary to make up the deficiences. (See p. 25 in University Bulletin.)

MATHEMATICS 21: TECHNIQUES OF CALCULUS II

PROFESSOR: Francis H.S. Hall. Office hours per week: 4-6.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25-30 majors. THEME OF COURSE: Integral calculus and linear algebra provide a math foundation for students majoring in four-year business or economics. REQUIRED TEXT: Introductory Mathematical Analyses for Students of Business and Economics (2nd Ed.) by Haeussler and Paul. TYPICAL WEEKLY ASSIGNMENTS: 24 pages of reading and problems assigned from text for each class period. EXAMS: 2 midterms and a comprehensive final. GRADING PHILOSOPHY: Grade based on total score equal to sum of 60% for scores on Exams I and II and 40% for final exam score. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Math. 20.

MATHEMATICS 21: TECHNIQUES OF CALCULUS II

PROFESSOR: Paul Williams. Office hours per week: 7 1/2.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 20 majors. THEME OF COURSE: To become proficient in solving integral calculus problems which are related to the business field. REQUIRED TEXT: Introductory Mathematical Analysis for Students of Business and Economics, Haeussler and Paul. TYPICAL WEEKLY ASSIGNMENTS: Homework exercises are assigned daily. EXAMS: 3 exams and 4-5 quizzes. GRADING PHILOSOPHY: Grading is based on a percentage scale with 10% increments. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Math. 20.

MATHEMATICS 35: GENERAL VIEW OF MATHEMATICS

PROFESSOR: Melvin Breakiron. Office hours per week: 5-7.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25-30 non-majors. THEME OF COURSE: Topology, number sequences, some methods of counting, probability, and introduction to statistics. REQUIRED TEXT: Mathematics: A Human Endeavor by Harold R. Jacobs. TYPICAL WEEKLY ASSIGNMENT: 30 pages of reading and problem sets assigned for each session. EXAMS: 3 tests and a comprehensive final. GRADING PHILOSOPHY: Grade will be determined by averaging the three tests and final exam. Final test is weighted twice as much as the other tests. TENTATIVELY SCHEDULED FOR: Spring Term.

MATHEMATICS 35: GENERAL VIEW OF MATHEMATICS

PROFESSOR: Dr. Nicholas S. Ford. Office hours per week: 8.

COURSE FORMAT: Lectures. ENROLLMENT: 15-30 non-majors. THEME OF COURSE: Introduction to spirit and scope of mathematics. Few mathematical skills skills are required or developed. Topics include history, reasoning, statistics, graph theory, and principles of counting. To show students that math can be interesting, viable and fun. REQUIRED TEXT: Mathematics: A Human Endeavor by H.R. Jacobs. TYPICAL WEEKLY ASSIGNMENTS: One chapter each 2 weeks. 25-40 problems assigned weekly. Some assignments are done in class under instructor's supervision. EXAMS: 3 midterms, a non-comprehensive final, and quizzes (usually weekly). GRADING PHILOSOPHY: Each exam is curved on basis of past experience. Grade is determined by the following weighting: each exam = 20%, quiz average = 20% (Lowest quiz score will be dropped. The remaining scores are averaged to be the equivalent of an exam.) Extra credit is given for special projects and extra assignments. There are no retests. Make-up exams are given only for substantiated excuses. TENTATIVELY SCHEDULED FOR: Spring Term.

MATHEMATICS 35: GENERAL VIEW OF MATHEMATICS

PROFESSOR: Paul Williams. Office hours per week: 7 1/2

COURSE FORMAT: Lectures, discussions and labs. ENROLLMENT: 35 non-majors. THEME OF COURSE: Discussions revealing past and recent mathematicsl innovations as extensions of creative thinking. REQUIRED TEXT: Mathematics: A Human Endeavor by Jacobs. TYPICAL WEEKLY ASSIGNMENTS: Homework exercises are assigned for each session. EXAMS: 2 midtersm, a non-comprehensive final, and 4-5 quizzes. PAPER: A term paper is required. GRADING PHILOSOPHY: Grading is based on a percentage scale with 10% increments. TENTATIVELY SCHEDULED FOR: Spring Term. A sophomore status is recommended.

MATHEMATICS 61: ELEMENTARY CALCULUS WITH ANALYTIC GEOMETRY I

PROFESSOR: Franicis H.S. Hall. Office hours per week: 3.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 35 non-majors. THEME OF COURSE: Derivatives, integral, and application, analytic geometry. Needed for engineering and science courses. REQUIRED TEXT: Calculus and Analytic Geometry (2nd Ed.) by Riddle. TYPICAL WEEKLY ASSIGNMENTS: 25 pages, 3 problem sets. EXAMS: 2 midterm exams, 1 final. TENTATIVELY SCHEDULED FOR: Fahl Term. PREREQUISITE OR CONCURRENT: satisfactory scores on both the algebra and trigonometry proficiency examinations or in the case of unsatisfactory scores, the course(s) necessary to make up the deficiencies (see page 25 of University Bulletin).

MATHEMATICS 62: ELEMENTARY CALCULUS WITH ANALYTIC GEOMETRY II

PROFESSOR: Dr. Nicholas S. Ford. Office hours per week: 8.

COURSE FORMAT: Lectures. ENROLLMENT: 25 non-majors. THEME OF COURSE: Second course in calculus sequence for students of science and engineering. Major thrust of course is techniques of integration. Probably the most exacting course of the sequence: many problems are long and intricate, necessitating quite a bit of study. REQUIRED TEXT: Analytic Geometry and Calculus by Riddle. TYPICAL WEEKLY ASSIGNMENTS: Cover about a section per day. Assignments for the week might run 15-20 problems. EXAMS: 1 comprehensive final, 3 class-period exams (1 may be the take-home variety.) GRADING PHILOSOPHY: Student is judged on the basis of performance on 3 exams (60%) and final (40%). Exams are curved with "middle C" predetermined on basis of past class performances. Some provision for extra credit. No retests. No make-up test without substantiated excuse. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Math. 61.

MATHEMATICS 62: ELEMENTARY CALCULUS WITH ANALYTIC GEOMETRY II

PROFESSOR: Paul Williams. Office hours per week: 7 1/2.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25 majors. THEME OF COURSE: To become proficient in solving integral calculus problems which are related to engineering. REQUIRED TEXT: Calculus With Analytic Geometry by D.F. Riddle. TYPICAL WEEKLY ASSIGNMENTS: Homework exercises are assigned daily. EXAMS: 2 exams and a comprehensive final, 4-5 quizzes. GRADING PHILOSOPHY: Grading is based on a percentage scale with 10% increments. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Math. 61.

MATHEMATICS 71: INTERMEDIATE CALCULUS WITH APPLICATIONS

PROFESSOR: Melvin Breakiron. Office hours per week: 3-7.

COURSE FORMAT: Lectures. ENROLLMENT: 20-30 majors and non-majors. THEME OF COURSE: Mathematics series, partial derivatives, multiple integrals. TYPICAL WEEKLY ASSIGNMENTS: Homework exercises after every class. EXAMS: 1 comprehensive final, 2 other tests. GRADING PHILOSOPHY: Test scores. TENTATIVELY SCHEDULED FOR: Fall Term and Spring Term. PREREQUISITE: Math. 62.

MATHEMATICS 71: INTERMEDIATE CALCULUS WITH APPLICATIONS

PROFESSOR: Dr. Nicholas S. Ford. Office hours per week: 8.

COURSE FORMAT: Lectures. ENROLLMENT: 25 non-majors. THEME OF COURSE: Third course in Calculus Sequence for students of science and engineering. Topics covered are infinite series, multiple integration, and vector analysis. More emphasis is placed on theory than in preceding calculus courses. REQUIRED TEXT: Analytic Geometry and Calculus by Riddle. TYPICAL WEEKLY ASSIGNMENTS: 15 pages of reading and 30-40 problems assigned. EXAMS: Non-comprehensive final and three full-period exams. GRADING PHILOSOPHY: Students are judged on basis of 3 exams (60%) and a final exam (40%). Exams are curved on basis of previous experience. Consideration is given to extra credit problems for borderline cases. There is no retesting, and make-up exams are not given without substantiated excuses. TENTATIVELY SCHEDULED FOR: Spring Term and Summer Term. PREREQUISITE: Math. 62.

MATHEMATICS 71: INTERMEDIATE CALCULUS WITH APPLICATIONS.

PROFESSOR: Francis H.S. Hall. Office hours per week: 3.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 15 non-majors. THEME OF COURSE: Infinite series, analytic geometry, partial derivatives, multiple integrals. Material needed for engineering and science courses. REQUIRED TEXT: Calculus and Analytic Geometry (2nd Ed.) by Riddle. TYPICAL WEEKLY ASSINGMENTS: 25 pages, 3 problem sets. EXAMS: 2 midterm exams, 1 final. GRADING PHILOSOPHY: Grade based on average score of 3 exams. TENTATIVELY SCHEDULED FOR: Spring Term and Summer Term. PREREQUISITE: Math. 62.

MATHEMATICS 100: DIFFERENTIAL EQUATIONS

PROFESSOR: Melvin Breakiron. Office hours per week: 3-7.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25-30 majors and non-majors. THEME OF COURSE: Ordinary differential equations, applications, solutions by series. REQUIRED TEXTS: Elementary Differential Equations and Boundary Value Problems (3rd Ed.) by Boyce and DiPrima. TYPICAL WEEKLY ASSIGNMENTS: 20-30 pages of reading and problems assigned for each session. EXAMS: A comprehensive final and 3 quizzes. GRADING PHILOSOPHY: Grades are based on the average of 3 tests plus final exam, which is weighted twice as much as the otehr tests. TENTATIVELY SCHEDULED FOR: Fall Term and Winter Term. PREREQUISITE: Math. 71. (Students may take only one course for credit: either Math. 83 or Math. 100.)

MATHEMATICS 100: DIFFERENTIAL EQUATIONS

PROFESSOR: Dr. Nicholas S. Ford. Office hours per week: 8.

COURSE FORMAT: Lectures. ENROLLMENT: 25 non-majors. THEME OF COURSE: Theme is differential equations and applications. A broad spectrum of special techniques is introduced. Course demands a fair amount of student preparation, but is very rewarding. REQUIRED TEXT: Elementary Differential Equations and Boundary Value Problems by Boyce and DiPrima. TYPICAL WEEKLY ASSIGNMENTS: Approximately 4 sections are covered. 15-20 problems assigned. EXAMS: 1 comprehensvie final, 3 class-period exams (1 may be take-home variety.) GRADING PHILOSOPHY: Students are graded on basis of 3 exams (60%) and a final (40%). Exams are curved on basis of previous experiences. Some provision for extra credit problems. No provision for retests or make-up exams without substantiatied excuse. TENTATIVELY SCHEDULED FOR: Winter Term. Students may take only one course for credit from Math. 83 and Math. 100. PREREQUISITE: Math. 71.

MATHEMATICS 101: MATRICES AND STATISTICS

PROFESSOR: Dr. Nicholas S. Ford. Office hours per week: 8.

COURSE FORMAT: Lectures. ENROLLMENT: 30 non-majors. THEME OF COURSE: Linear algebra (Matrices) and selected statistical topics. Course is introductory in nature. Few applications are presented, but material is fundamental to many of the sciences. Problems tend to be well-structured, varied, and short. Course is not as time-consuming as many math courses. REQUIRED TEXTS: Elementary Linear Algebra by Shields and Notes on Statistics by Klimko. TYPICAL WEEKLY ASSIGNMENTS: 25 pages of reading and 10-40 problems. EXAMS: 2 midterms, a non-comprehensive final, and quizzes (usually weekly). GRADING PHILOSOPHY: Each exam is curved on basis of past experience. Grade is based on following weighting: 25% for each exam and 25% for the quiz average. (The lowest quiz score is dropped and the average of the remaining quiz scores equals one exam.) There are no retests and make-up exams are given only for substantiated excuses. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Math. 62.

MATHEMATICS 101: MATRICES AND STATISTICS

PROFESSOR: Paul Williams. Office hours per week: 7 1/2.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25 majors. THEME OF COURSE: Systems of linear equations, matrix algebra, determinants, eigenvalues, and eigenvectors, applications to differential equations, and statistics. REQUIRED TEXTS: Elementary Linear Algebra by Shields and Statistics and Differential Equations Notes by Klimko. TYPICAL WEEKLY ASSIGNMENTS: Homework exercises are assigned for each session. EXAMS: 2 midterms, a comprehensive final, and 4-5 quizzes. OTHER COURSE: REQUIREMENT: An elementary computer project. GRADING PHILOSOPHY: Grading is based on a percentage scale with 10% increments. TENTATIVELY SCHEDULED FOR: Winter Term and Spring Term. PREREQUISITE: Math. 62.

MATHMATICS 102: INTRODUCTION TO VECTOR ANALYSIS AND PARTIAL DIFFERENTIAL EQUATIONS

PROFESSOR: Dr. Nicholas S. Ford. Office hours per week: 8.

COURSE FORMAT: Lectures and others. ENROLLMENT: 5-10 majors and non-majors. THEME OF COURSE: Course is the crowning glory of the calculus sequence. Course is divided between fourier analysis of partial differential equations and vector analysis. Problems are interesting and rewarding. The topics introduced are advanced, but easily grasped. REQUIRED TEXTS: Elementary Differential Equations and Boundary Value Problems by Boyce and DiPrima, Vector Analysis by Spiegel, Mimeographed Lecture Notes by Nick Ford. TYPICAL WEEKLY ASSIGNMENTS: One chapter of Vector Analysis, one chapter of partial differential equations covered in 4 weeks. Between 10-20 problems are assigned weekly. EXAMS: 1 midterm exam, 1 final. COURSE REQUIREMENTS: Students are required to keep a notebook of assigned problems and to participate in "problem seminar" once a week, wherein they will explain individually assigned problems to the class. GRADING PHILOSOPHY: Course is basically a seminar, with instructor lecturing 2/3 of the time, and other participants presenting selected problems 1/3 of the time. Grade is based on the following weighting system: seminar=50%, exams=40%, notebook=10%. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Math.100. (Students who have passed A.M. 451 may not schedule this course.)

MATHEMATICS 200: NUMBER SYSTEMS

PROFESSOR: Melvin Breakiron. Office hours per week: 3-5.

COURSE FORMAT: Lectures. ENROLLMENT: 20-30 majors. THEME OF COURSE: Mathematics for elementary school teachers. REQUIRED TEXT: Subject to change. TYPICAL WEEKLY ASSIGNMENTS: Approximately 30 pages, 10-30 exercises per class. EXAMS: 1 comprehensive final, 1 quiz every 3 weeks. GRADING PHILOSOPHY: Grade based on test performance. For elementary education students only.

FAYETTE CAMPUS S-SEQUENCE

This sequence follows the Math 61-62 outlines and is altered to include algebraic and trigonometric concepts, and the work is spread over three terms instead of two terms. Students in this group are those who have the necessary prerequisites for Math 61-62 but whose placement test scores indicate algebraic and trigonometric weaknesses.

MATHEMATICS 10S: ELEMENTARY CALCULUS WITH ANALYTIC GEOMETRY

PROFESSOR: Melvin Breakiron and/or Francis H.S. Hall. Office hours per week: 3-7.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25-30 majors and non-majors. THEME OF COURSE: Integration of algebra and trigonometry with calculus. REQUIRED TEXT: Calculus and Analytic Geometry (2nd Ed.) by D.F. Riddle. TYPICAL WEEKLY ASSIGNMENT: 15-20 homework problems for each session. EXAMS: a comprehensive final and a test every 2-3 weeks. GRADING PHILOSOPHY: Final grade is based on the test scores. TENTATIVELY SCHEDULED FOR: Fall Term.

MATHEMATICS 61S: ELEMENTARY CALCULUS WITH ANALYTIC GEOMETRY

PROFESSOR: Melvin Breakiron and/or Francis H.S. Hall. Office hours per week: 3-7.

COURSE FORMAT: Lectures. ENROLLMENT: 25-30 majors and non-majors. THEME OF COURSE: Integration of algebra and trigonometry with calculus. REQUIRED TEXT: Calculus and Analytic Geometry (2nd Ed.) by D.F. Riddle. TYPICAL WEEKLY ASSIGNMENTS: 15-20 homework problems for each session. EXAMS: a comprehensive final and a test every 2-3 weeks. GRADING PHILOSOPHY: Final grade is based on the test scores. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Math. 10S or previous knowledge of calculus.

MATHEMATICS 62S: ELEMENTARY CALCULUS WITH ANALYTIC GEOMETRY

PROFESSOR: Melvin Breakiron and/or Francis H.S. Hall. Office hours per week: 3-7.

COURSE FORMAT: Lectures. ENROLLMENT: 20-30 majors and non-majors. THEME OF COURSE: Integration of algebra and trigonometry with calculus. REQUIRED TEXT: Calculus and Analytic Geometry (2nd Ed.) by D. F. Riddle. TYPICAL WEEKLY ASSIGNMENTS: Homework problems are assigned for every session. EXAMS: a comprehensive final and a test every 2-3 weeks. GRADING PHILOSOPHY: Final grade is based on the test scores. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Math. 61S.

ASSOCIATE DEGREE MATHEMATICS

These courses provide concentrated instruction to prepare graduates in the two-year associate degree majors.

MATHEMATICS 800: BUSINESS MATHEMATICS

PROFESSOR: Dr. Nicholas S. Ford. Office hours per week: 8.

COURSE FORMAT: Lectures. ENROLLMENT: 35 non-majors. THEME OF COURSE: Functional mathematical concepts for students with business orientation. Course deals with fractions, decimals, percents, interest (simple and compound), amortization, annuities, etc. REQUIRED TEXT: Essential Business Mathematics by Ronald Harshberger. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading and 50 assigned problems. EXAMS: Comprehensive final (40%), 3 class-period exams (60%). Exams are curved on basis of previous experience. There are no retests, and make-up exams are given only for substantiated excuses. TENTATIVELY SCHEDULED FOR: Fall Term.

MATHEMATICS 800: BUSINESS MATHEMATICS

PROFESSOR: Francis H.S. Hall. Office hours per week: 3.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25 majors and non-majors. THEME OF COURSE: Arithmetic and algebra needed for computing interest, insurance, merchandising, annuities and other business matters. REQUIRED TEXTS: Essential Math for College Students by Mueller and Business Math for College by Rice, Mayne or Essential Business Mathematics by Harshberger. TYPICAL WEEKLY ASSIGNMENTS: 18 pages, 3 problem sets. EXAMS: 1 or 2 midterm exams, 1 final and weekly tests. GRADING PHILOSOPHY: Equal weight for each exam and average of quizzes. TENTATIVELY SCHEDULED FOR: Fall Term and Summer Term.

MATHEMATICS 801: TECHNICAL MATHEMATICS

PROFESSOR: Melvin Breakiron. Office hours per week: 3-5.

COURSE FORMAT: Lectures. ENROLLMENT: 20-35 two-year majors. THEME OF COURSE: Algebra and trigonometry. REQUIRED TEXT: Subject to change. TYPICAL WEEKLY ASSIGNMENTS: 20-25 pages, 10-30 exercises per class. EXAMS: 1 comprehensive final, 1 quiz every 3 weeks. GRADING PHILOSOPHY: Grade is based on test performance. TENTATIVELY SCHEDULED FOR: Fall Term and Winter Term. PREREQUISITES: 1 unit in algebra, 1 unit in plane geometry.

MATHEMATICS 801: TECHNICAL MATHEMATICS

PROFESSOR: Carol Carter. Office hours per week: By appointment.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25 non-majors. THEME OF COURSE: College level algebra and trigonometry needed in two-year technical program. REQUIRED TEXT: Basic Technical Mathematics With Calculus (2nd Ed.) by Washington. TYPICAL WEEKLY ASSIGNMENTS: 50-75 problems each session. EXAMS: 3 midterms, a comprehensive final, and 4-6 quizzes (on chapters). GRADING PHILOSOPHY: 3--100-point midterms, 200-point final, 40-80 points from quizzes. Of the total points: 90%-100% = A, 80%-89% = B, 70%-79% = C, 60%-69% = D, Below 59% = F. TENTATIVELY SCHEDULED FOR: Fall Term and Winter Term. PREREQUISITES: 1 unit in algebra, 1 unit in plane geometry.

MATHEMATICS 801: TECHNICAL MATHEMATICS

PROFESSOR: Dr. Nicholas S. Ford. Office hours per week: 8.

COURSE FORMAT: Lectures. ENROLLMENT: 30 non-majors. THEME OF COURSE: Introductory algebra and trigonometry. Foundation course in a three-course sequence. Designed for application in technically oriented courses such as analytical mechanics. REQUIRED TEXT: Basic Technical Mathematics With Calculus (2nd Ed.) by A.J. Washington. TYPICAL WEEKLY ASSIGNMENTS: 10 pages of reading. A problem set is assigned each session, approximately 10 problems. EXAMS: 2 midterms, a comprehensive final, and quizzes (usually weekly). GRADING PHILOSOPHY: Each exam is curved on basis of past experience. Grade is based on this weighting: each midterm = 20%, final = 40%, quiz average = 20% (Lowest quiz score dropped. Average of the remaining is equivalent of an exam.) No final grade will be lower than the final exam grade. There will be no retests, and no make-ups for quizzes. Make-ups for exams are given only for substantiated excuses. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITES: 1 unit in algebra, 1 unit in plane geometry.

MATHEMATICS 801: TECHNICAL MATHEMATICS

PROFESSOR: Paul Williams. Office hours per week: 7 1/2.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 30 majors. THEME OF COURSE: To become proficient in solving basic problems in algebra and trigonometry which are related to the two-year technical fields. REQUIRED TEXT: Technical Mathematics by Washington. TYPICAL WEEKLY ASSIGNMENTS: Homework exercises are assigned for each session. EXAMS: 3 exams and 4-5 quizzes. GRADING PHILOSOPHY: Grading is based on a percentage scale with 10% increments. TENTATIVELY SCHEDULED FOR: Fall Term and Winter Term. PREREQUISITES: 1 unit in algebra, 1 unit in plane geometry.

MATHEMATICS 802: TECHNICAL MATHEMATICS

PROFESSOR: Melvin Breakiron. Office hours per week: 3-7.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25-32 non-majors. THEME OF COURSE: Elements of algebra and trigonometry for students in two-year technical programs. REQUIRED TEXT: Basic Technical Mathematics With Calculus (2nd Ed.) by A.J. Washington. TYPICAL WEEKLY ASSIGNMENTS: 25 pages of reading and problems assigned for every session. EXAMS: A comprehensive final and 3 tests. GRADING PHILOSOPHY: Grades will be determined by average of 3 tests and the final. Final test is weighted twice as much as the other tests. TENTATIVELY SCHEDULED FOR: Winter Term and Spring Term. PREREQUISITE: Math. 801 or equivalent.

MATHEMATICS 802: TECHNICAL MATHEMATICS

PROFESSOR: Carol Carter. Office hours per week: By appointment.

COURSE FORMAT: Lectures and discussions. ENROLLMNET: 25-32 non-majors. THEME OF COURSE: Second term college algebra and additional trigonometry. REQUIRED TEXT: Basic Technical Mathematics With Calculus (2nd Ed.) by Washington. TYPICAL WEEKLY ASSIGNMENTS: 50-75 problems each session. EXAMS: 3 midterms, a comprehensive final, and 4-6 quizzes on chapters. GRADING PHILOSOPHY: 3--100-point midterms, 200-point final, 40-60 points from quizzes. Of the total points: 90%-100% = A, 80%-89% = B, 70%-79% = C, 60%-69% = D, below 59% = F. TENTATIVELY SCHEDULED FOR: Winter Term and Spring Term. PREREQUISITE: Math. 801.

MATHEMATICS 802: TECHNICAL MATHEMATICS

PROFESSOR: Francis H.S. Hall. Office hours per week: 3.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25 majors and non-majors. THEME OF COURSE: Technical algebra and trigonometry needed for associate degree engineering courses. REQUIRED TEXT: Basic Technical Math With Calculus by Washington. TYPICAL WEEKLY ASSIGNMENTS: 18 pages, 3 problem sets. EXAMS: 2 midterm exams, 1 final, and weekly tests. GRADING PHILOSOPHY: Equal weight-each exam and average of quizzes. TENTATIVELY SCHEDULED FOR: Winter Term and Spring Term. PREREQUISITE: Math. 801.

MATHEMATICS 802; TECHNICAL MATHEMATICS

PROFESSOR: Paul Williams. Office hours per week: 7 1/2

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25 majors. THEME OF COURSE: To become proficient in solving algebra and trigonometry progrms which are related to technical applications. REQUIRED TEXT: Basic Technical Mathematics by Washington. TYPICAL WEEKLY ASSIGNMENTS: Exercises assigned for each session. EXAMS: 2 midterms, a non-comprehensive final, and 4-5 quizzes. GRADING PHILOSOPHY: Grading is based on a percentage scale with 10% increments. TENATATIVELY SCHEDULED FOR: Winter Term and Spring Term. PREREQUISITE: Math. 801.

MATHEMATICS 803: TECHNICAL CALCULUS

PROFESSOR: Dr. Nicholas S. Ford. Office hours per week: 8.

COURSE FORMAT: Lectures. ENROLLMENT: 20 non-majors. THEME OF COURSE: Final course of associate degree technical mathematics program. The course deals with analytic geometry and both integral and differential calculus. Much material is covered, but not in any great depth. REQUIRED TEXT: Basic Technical Mathematics by Allyn J. Washington. TYPICAL WEEKLY ASSIGNMENTS: 15 pages of reading and approximately 30 problems. EXAMS: A comprehensive final and two exams and six quizzes. GRADING PHILOSOPHY: Students are judged on the basis of the two exams (20% each), quizzes (total of 20%) and a comprehensive final exam (40%). No student will receive a lower grade than that of the final exam. Exams are curved on basis of previous experience. Consideration is given to extra credit problems for borderline cases. There are no retests, and make-up exams are given only for substantiated excuses. TENTATIVELY SCHEDULED FOR: Fall Term and Spring Term. PREREQUISITES: Math. 801, 802.

MATHEMATICS 803: TECHNICAL CALCULUS

PROFESSOR: Francis H.S. Hall. Office hours per week: 6.

COURSE FORMAT: Lectures, discussions. ENROLLMENT: 20 students per section, predominantly engineering technology majors. Designed for associate degree programs. THEME OF COURSE: Analytic Geometry, Differential and Integral Calculus. (Math needed to be assistants to engineers.) REQUIRED TEXT: Basic Technical Math With Calculus by Washington. EXAMS: Final (not comprehensive), midterms (2), weekly quizzes. TYPICAL WEEKLY ASSIGNMENTS: 15 pages of reading, 3 sets of problems. GRADING PHILOSOPHY: Grade based on average of quizzes plus average of exams. TENTATIVELY SCHEDULED FOR: Fall Term and Spring Term. PREREQUISITE: Math. 801, 802.

MECHANICAL ENGINEERING 810: PRODUCT DESIGN

PROFESSOR: William Chasko. Office hours per week: 5.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 10-35 majors. THEME OF COURSE: Mechanical design of machine elements such as shafts, bridges, springs, etc. REQUIRED TEXT: Mechanical Engineering Design by Shigley, (2nd Ed.). TYPICAL WEEKLY ASSIGNMENTS: 3-5 problems, mtg. lab assign. and 1-1 1/2 chapters reading. EXAMS: 1 midterm exam, a comprehensive final, 2 quizzes. COURSE REQUIREMENTS: Notebook of all problems assigned. GRADING PHILOSOPHY: Grading is on percentage basis: 40% exams, 30% quizzes, 25% problems and homework assignments, 5% miscellaneous. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITES: E.Mch. 813, M.E. 805.

MINERAL ENGINEERING 61: INTRODUCTION TO COAL PREPARATION

PROFESSOR: Faculty

COURSE FORMAT: Lectures, labs and field trips. ENROLLMENT: 48 majors. THEME OF COURSE: Gain an insight into the various processes involved in coal preparation, the various equipment involved, as well as the chemistry. physics, and minerology of coal that permit coal to be separated from refuse. TENTATIVELY SCHEDULED FOR: Fall Term.

MINING 23: MINERAL LAND AND MINE SURVEYING

PROFESSOR: Dr. Jan Mutmansky. Office hours per week: 6.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 24 majors. THEME OF COURSE: Surveying theory and practice for mining majors. Extensive practice in leveling, transit-tape surveying, sunshots and mapping. REQUIRED TEXTS: Elementary Surveying by Brinker and Wolf, K & E Solar Ephemens, K & E Field Book. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading and 2 problem sets. EXAMS: 2 midterms and a non-comprehensive final. GRADING PHILOSOPHY: Tests = 20% each or 60%, Attendance = 20%, Lab Assignments = 20%. TENTATIVELY SCHEDULED FOR: Spring Term and Summer Term. PREREQUISITES: E.G.11.

MINING 30: INTRODUCTION TO MINING ENGINEERING

PROFESSOR: Albert P. Bertoni. Office hours per week: 8.

COURSE FORMAT: Lectures. ENROLLMENT; 50 majors. THEME OF COURSE: The course is also a prerequisite for the 4-year mining degree. This is an introduction to mining engineering. It covers a broad spectrum of hard rock and coal mining methods--both underground and open pit. Exposes students to ore analyses and some mineralization. REQUIRED TEXTS: SME Vol. 1 and 2--A.I.M.E., Explosives and Blasting by Dupont. TYPICAL WEEKLY ASSIGNMENTS: Approximately 40 pages of reading. At least 4 involved lab problems including solutions. EXAMS: Exams, final, tests, and quizzes. COURSE REQUIREMENTS: Although not a requirement--field trips are part of the course. GRADING PHILOSOPHY: The final grade is based upon percentages: 80% for exams and tests and 20% for lab homework assignments. Class participation is a factor. TENTATIVELY SCHEDULED FOR: Fall Term.

MINING TECHNOLOGY 800: MINING TECHNOLOGY ORIENTATION

PROFESSOR: Willard McClain. Office hours per week: 10.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 35 majors. THEME OF COURSE: An introduction to the coal mining industry. A study of coal's origin and history. Also, an examination of modern underground mining and its impact on society. Visual aids and demonstration materials are utilized. REQUIRED TEXT: Elements of Practical Coal Mining A.I.M.E. @ $9.00 each. TYPICAL WEEKLY ASSIGNMENTS: 50 pages of reading. EXAMS: Three examinations and final. GRADING PHILOSOPHY: Grades are determined by the point system earned via class participation, attendance, and exams. TENTATIVELY SCHEDULED FOR: Fall Term. A required course for mining technology students selecting production or maintenance options.

MINING TECHNOLOGY 800: MINING TECHNOLOGY

PROFESSOR: Dr. Jan Mutmansky. Office hours per week: 6.

COURSE FORMAT: Lectures. ENROLLMENT: 35 majors. THEME OF COURSE: Introductory course dealing with basic information on the coal mining industry and its relationship with mining technology. REQUIRED TEXTS: Elements of Practical Coal Mining by Cassidy. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading. EXAMS: 1 midterm and a non-comprehensive final. GRADING PHILOSOPHY: Test = 80%, Attendance = 20%. TENTATIVELY SCHEDULED FOR: Fall Term.

MINING TECHNOLOGY 801: COAL MINING TECHNOLOGY

PROFESSOR: Albert P. Bertoni. Office hours per week: 8.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 52 majors. THEME OF COURSE: Insight into the different coal mining systems and equipment used in extracting coal. Mine haulage, pumping, drainage, and mine plant layout and design is also included. REQUIRED TEXTS: Elements of Practical Coal Mining by Staley, and SME - Vol. 2. TYPICAL WEEKLY ASSIGNMENTS: About 10 pages of required reading. At least 4 time-consuming problems are required - one of which is an essay type. EXAMS: 2 midterms, 1 final, several short tests. PAPER: Student's conception of Duties of Mine Superintendent (500 words). GRADING PHILOSOPHY: Final grade is based upon percentages: 90% exams and tests and 10% homework assignments, class participation is considered. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Mng. T. 800.

MINING TECHNOLOGY 802; MINE VENTILIATION

PROFESSOR: Dr. Jan Mutmansky. Office hours per week: 6

COURSE FORMAT: Lectures and labs. ENROLLMENT: 35 majors. THEME OF COURSE: Basic introduction theory, plus extensive practice in ventilation of coal mines. REQUIRED TEXT: *Mine Ventilation and Air Conditioning* by Hartman and WVU Mine Map Guide. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading and one problem set. EXAMS: 2 midterms and a non-comprehensive final. GRADING PHILOSOPHY: Tests = 75% and Attendance = 25%. TENTATIVELY SCHEDULED FOR: Spring Term PREREQUISITES: Chem 11, Phys 150.

MINING TECHNOLOGY 802: MINE VENTILATION

PROFESSOR: John S. Peton. Office hours per week: By appointment.

COURSE FORMAT: Lectures, discussions, and labs. ENROLLMENT: 35 majors. THEME OF COURSE: Ventilation (Quantity and Quality Control, Fundamentals of Airflow, Ventilating Circuits, Mechanical Ventilation, Main and Auxiliary Fans, Mine Ventilation Systems and Air Measurements, plus mechanical detecting devices). Students will learn the working knowledge of mine ventilating principles and practices and the theory that should prive applicable to similar technical fields. REQUIRED TEXTS: *Mine Ventilation* by Hartman, *Introduction to Mine Ventilating Principles and Practices* by Kingery, and *U.S. Bureau of Mines - Bulletin 589*. TYPICAL WEEKLY ASSIGNMENTS: 5-20 pages of reading and problem sets (ventilating problem calculations; mine maps). EXMAS: 1 or 2 midterms, a comprehensive final, 5-7 quizzes, 2-3 problem sets (classroom assignments and mine map problems). OTHER COURSE REQUIREMENTS: Completion of issued map guides and/or one mine map. Possible field trip. GRADING PHILOSOPHY: The average of three, one-hour exams will determine final grade. Other factors include attendance, class participation, and completion of required assignments. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE (or concurrent): Chem. 11, Phys. 150.

MINING TECHNOLOGY 803: STRATA CONTROL

PROFESSOR: Faculty

COURSE FORMAT: Lectures, labs and field trips. ENROLLMENT: 48 majors. THEME OF COURSE: An introduction to rock mechanics including stress distribution, pillar design, roof mechanics of mining systems, roof enforcement, as well as mechanics of subsidence. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE OR CONCURRENT: Mng. T. 801.

MINING TECHNOLOGY 804: MINE PLANT TECHNOLOGY

PROFESSOR: Willard McClain. Office hours per week: 10.

COURSE FORMAT: Lectures, discussion, labs, and visual aids. ENROLLMENT: Majors (2 sections/35 each). THEME OF COURSE: An introduction to basic electricity and its application in mining and materials handling. REQUIRED TEXT: Electric Circuits and Machines by Lister. TYPICAL WEEKLY ASSIGNMENTS: Approximately 60 pages of reading. EXAMS: 2 midterms, a comprehensive final. GRADING PHILOSOPHY: Midterms--60%, Final--30%, Attendance and Participation--10%. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Physics 150. This course is a requirement in both options, production or maintenance.

MINING TECHNOLOGY 805: MINE SYSTEMS TECHNOLOGY

PROFESSOR: Albert P. Bertoni. Office hours per week; 8.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 50 majors. THEME OF COURSE: Basic time study with emphasis on its effect on coal production. Also, mine management organization and cost flow and control. REQUIRED TEXT: SME-Vol. 2. TYPICAL WEEKLY ASSIGNMENTS: The reading assignments are based upon lecture notes. Labs (including on-the-jobs); homework problems. EXAMS: Midterm exam, 1 final and tests. GRADING PHILOSOPHY: Grade is based upon percentages: 90% for the exams and 10% for homework assignments. Class participation is a consideration. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Mng. T. 801.

MINING TECHNOLOGY 806: MINE MANAGEMENT AND LAW

PROFESSOR: Willard McClain. Office hours per week: 10.

COURSE FORMAT: Lectures, discussions, and visual aids. ENROLLMENT: Majors (2 sections/35 each). THEME OF COURSE: To give students a working knowledge of State and Federal Mining Laws and an introduction to Mine Management. REQUIRED TEXTS: Bituminous Coal Mining Laws of Pennsylvania, Excerpts from Title 30--Code of Federal Regulations, and National Bituminous Coal Wage Agreement. TYPICAL WEEKLY ASSIGNMENTS: Approximately 60 pages of reading. EXAMS: 2 midterms and a comprehensive final. GRADING PHILOSOPHY: Midterms--60%, Final--30%, Attendance and Participation--10%. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Econ. 14. Recommendation: fourth-term standing.

MINING TECHNOLOGY 807: ELECTRICAL MINE MACHINERY CIRCUITS

PROFESSOR: Faculty.

COURSE FORMAT: Lectures, labs, field trips. ENROLLMENT: 25 majors. THEME OF COURSE: The instructional objective is to familiarize the student with electrical systems and their components on various types of modern mining machinery, powered by AC, DC, combination AC and DC, and batteries. The student should learn to diagnose electrical faults in machinery components and see that proper repair procedures are followed. He will also be taught to set up, evaluate and improve electrical maintenance schedules and practices, including recommending spare parts inventories. The goal to achieve is competency to perform safely and efficiently electrical mine machinery maintenance, aimed at reduced downtime, increased productivity, and improved electrical maintenance costs. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITE: Mng. T. 804.

MINING TECHNOLOGY 808: MINE POWER DISTRIBUTION

PROFESSOR: Dr. Jan Mutmansky. Office hours per week: 6.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 20 majors. THEME OF COURSE: To cover both AC and DC mine power distribution and to acquaint the student with power layouts and basic mine power calculations. REQUIRED TEXT: Safety Grounded System by Powell. TYPICAL WEEKLY ASSIGNMENTS: 20 pages of reading and 1 problem set. EXAMS: 2 midterms and a non-comprehensive final. GRADING PHILOSOPHY: 80% = Tests and 20% = Attendance. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITE: Mng. T. 804.

MINING TECHNOLOGY 809: MINE MECHANICS HYDRAULICS.

PROFESSOR: Williar McClain. Office hours per week: 6.

COURSE FORMAT: Lectures, labs, field trips. ENROLLMENT: 25 majors. THEME OF COURSE: Starting with basic hydraulic principles and calculations of pressure, volume, and force, the study moves through hydraulic components used on mining machinery including tubing, piping, hoses, and fittings used for conducting the hydraulic fluids to these units, followed by hydraulic component and complete systems study on specific modern mining machinery. The student, upon completion of this course, should be able quickly to identify and locate hydraulic faults and malfunctions, and he should be capable of making the necessary adjustments or faulty component replacement indicated. Cleanliness, proper face maintenance, and excellence in component repairing the rebuilding are stressed. REQUIRED TEXT: Industrial Hydraulics Manual by Vickers. TYPICAL WEEKLY ASSIGNMENTS: Approximately 50 pages of reading, problems, labs. EXAMS: 2 midterms, a comprehensive final, and several quizzes. OTHER COURSE REQUIREDMENTS: Projects, field trips. GRADING PHILOSOPHY: Midterms--60%, Final--30%, Attendance, Participation, Projects, Assignments--10%. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITES: Phys. 150 and Math. 802.

MINING TECHNOLOGY 810: MINE MACHINE DYNAMICS

PROFESSOR: Willard McClain. Office hours per week; 6.

COURSE FORMAT: Lectures, labs, field trips. ENROLLMENT: 25 majors. THEME OF COURSE: Fundamentals of mechanics as they apply to mining machinery. A simple logical approach to the understanding of transmission, conversion, and utilization of mechanical forces through the sue of levers, ropes, shafts and gears. Application of such mechanical units as conveyor belts, V belts and drives, clutches, gear drives, and variable speed transmissions is covered. Also problem solving in the area of drive selection, design, and adaptability is studied. The essentials of practical lubrication methods and applications as related to mining equipment are included. EXAMS: A comprehensive final and two midterm exams are scheduled. OTHER COURSE REQUIREMENTS: Projects and field trips. GRADING PHILOSOPHY: Final--30%, Exams--60%, Attendance, Participation, Assignments--10%. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITES: Phys. 150 and E.Mch. 811.

MINING TECHNOLOGY 811: PRACTICUM IN MINE MAINTENANCE

PROFESSOR: Willard McClain. Office hours per week: 6.

COURSE FORMAT: Lectures, labs, discussions, field trips. ENROLLMENT: 25 majors. THEME OF COURSE: Concentrated practices of mine maintenance procedures in electrical, mechanical, and hydraulic phases. Field and shop techniques, maintaining permissibility, use of test devices and instruments, wiring, piping, oxy-acetylene cutting, electric arc welding, with emphasis on practical efficient trouble-shooting. Set up maintenance programs, schedule preventive and productive maintenance. Plan and schedule major overhauls and rebuilding of mine machinery. TYPICAL WEEKLY ASSIGNMENTS: Reading, problem sets, lab reports. EXAMS: A comprehensive final and quizzes on various maintenance phases. OTHER COURSE REQUIREMENTS: Projects and field trips. GRADIN G PHILOSOPHY: Final--30%, Projects, Assignments, Reports--60%, and Attendance and Participation--10%. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITES: Phys. 150 and Mng. T. 804.

MUSIC 5: THE FUNDAMENTALS OF MUSIC APPRECIATION

PROFESSOR: Faculty

COURSE FORMAT: Discussions. ENROLLMENT: Non-majors. THEME OF COURSE: The course prepares the student to be a more intelligent consumer of the forms and styles of music most often heard in today's concert halls. The knowledge gained can also be applied to the various other parts. REQUIRED TEXT: Listen, 2nd Edition, Kerman. TYPICAL WEEKLY ASSIGNMENTS: Approximately 40 pages in the text. Student should also be listening in the library to the "listening assignments" to reinforce the classroom work. EXAMS: 1 midterm exam and a comprehensive final and 4 unannounced performance on the exams and quizzes.

MUSIC EDUCATION 85: FUNDAMENTALS OF MUSIC FOR CLASSROOM TEACHERS

PROFESSOR: Dr. Mary Lou Romanek. Office hours per week: 3.

COURSE FORMAT: Discussions. ENROLLMENT: 25 majors and non-majors.

THEME OF COURSE: Since many education majors have had limited musical experiences, Music Education 85 is designed to enalbe students to gain confidence and competence in musical performance. Emphasis is placed on those specific musical skills (fundamentals of music) which are essential to effective classroom music teaching. Those musical skills are reading music, constructing chords, and playing melodies and chords on the piano. TYPICAL WEEKLY ASSIGNMENTS: 20 pages of reading and piano assignments. EXAMS: 1 midterm and a comprehensive final. GRADING PHILOSOPHY: The final grade is based on these percentages: 33 1/3 average of piano grades, 33 1/3 midterm exam, and 33 1/3 final exam. TENTATIVELY SCHEDULED FOR: Fall Term.

MUSIC EDUCATION 86: MUSIC FOR THE ELEMENTARY CLASSROOM TEACHER.

PROFESSOR: Dr. Mary Lou Romanek. Office hours per week: 3.

COURSE FORMAT: Discussions and individualized instruction. ENROLLMENT: 25 Elementary, Special Ed., Early Childhood Majors. THEME OF COURSE: Emphasizes the development of music knowledge and skills. Materials and methods appropriate to the musical growth of elementary children are discussed and illustrated. REQUIRED TEXTS: Music Materials for Teaching by Elizabeth Crook. Optional--Introduction to Music Fundamentals by Andrews and Wardian. EXAMS: 1 midterms and a comprehensive final. GRADING PHILOSOPHY: The final grade is based upon these percentages: 5 % movement activity, 5% accompany class on the autoharp, 15% accompany class on piano, 10% listening lesson, 5% creative activity, 20% teaching lesson, 20% midterm, and 20% final. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Music Education 85 or knowledge of fundamental music skills.

NUTRITION 351: INTRODUCTORY PRINCIPLES OF NUTRITION

PROFESSOR: Faculty. Office hours per week: By appointment.

COURSE FORMAT: Lectures, discussions, and other methods. ENROLLMENT: 35. THEME OF COURSE: Special emphasis is placed on those aspects of the subject material which students can relate to their personal lifestyle. Students should gain experience with proper nutrition: relationship of diet to health and disease; current concerns of nutrition; and adequate information to critically evaluate lay articles in the field. TENTATIVELY SCHEDULED FOR: Spring Term (majors and non-majors) and Summer Term (nursing majors). Students who have passed Nutrition 150 may not schedule this course.

PHILOSOPHY 1: INTRODUCTION TO LOGIC

PROFESSOR: Dr. Marian S. Mazgaj. Office hours per week: 4.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 35-40 majors and non-majors. THEME OF COURSE: To define philosophy; to understand principles of correct thinking, deductive and inductive inference; and the use and misuse of language in reasoning. TYPICAL WEEKLY ASSIGNMENTS: About 50 pages of reading. EXAMS: Midterm and a comprehensive final. GRADING PHILOSOPHY: midterm-25%; 50%-final examination and classroom participation-25%.

PHILOSOPHY 2: INTRODUCTION TO PHILOSOPHY

PROFESSOR: Dr. Marian S. Mazgaj. Office hours per week: 4.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 35-40 majors and non-majors. THEME OF COURSE: To define philosophy and its divisions and to evaluate the intellectual and moral tone today through a study of existentialism and other recent philosophies. REQUIRED TEXTS: The Grand Inquisitor by Dostoevski; The Myth of Sisyphys by Camus; Beyond Good and Evil by Nietzsche; Pragmatism by James. TYPICAL WEEKLY ASSIGNMENTS: 50 pages of reading. EXAMS: Midterm and a comprehensive final. GRADING PHILOSOPHY: Midterm-25%; final examination-50%; class participation-25%.

PHILOSOPHY 4: BASIC PROBLEMS OF PHILOSOPHY

PROFESSOR: Dr. Marian S. Mazgaj. Office hours per week: 4.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 40-50 majors and non-majors. THEME OF COURSE: General discussion of Ethics, Epistemology (Theories of Knowledge), Metaphysics, Social and Political Philosophy, Philosophy of Art, and Philosophy of Science. Students become familiar with philosophy, its language, and its major problems. REQUIRED TEXT: Problems of Philosophy, Mosuant and Freund. TYPICAL WEEKLY ASSIGNMENTS: 50 pages of reading. EXAMS: Midterm and a comprehensive final. GRADING PHILOSOPHY: Midterm-25%; final examination-50%; classroom participation-25%.

PHILOSOPHY 103: MAN AND MORAL VALUE

PROFESSOR: Dr. Marian S. Mazgaj. Office hours per week: 4.

THEME OF COURSE: I. Problems of Contemporary Ethical Judgement (Capital Punishment, Divorce, Suicide, Birth Control, Nuclear Disarmament, Marriage). II. Problems of Ethical Theory (The Concept of Good, Right Action, Moral Virtue, Moral Responsibility and Free Will). A student should learn the mearning of philosophy in general, the contemporary ethical problems, and the source of ethical judgement and happiness. TYPICAL WEEKLY ASSIGNMENTS: 50 pages of reading. EXAMS: Midterm and a comprehensive final. GRADING PHILOSOPHY: Midterm-25%; final examination-50%; class participation-25%.

PHYSICAL EDUCATION 5: PHYSICAL EDUCATION

PROFESSOR: Paul B. Agate. Office hours per week: By appointment.

COURSE FORMAT: Labs. ENROLLMENT: Majors and non-majors. THEME OF COURSE: Activities to promote appreciation and development of physical and motor skills. TYPICAL WEEKLY ASSIGNMENTS: None. EXAMS AND PAPERS: None. GRADING PHILOSOPHY: Participation, attitude and performance. TENTATIVELY SCHEDULED FOR: All Terms.

PHYSICAL EDUCATION 5: PHYSICAL EDUCATION

PROFESSOR: Linda L. Linnon. Office hours per week: By appointment.

COURSE FORMAT: Labs. ENROLLMENT: 24 non-majors. THEME OF COURSE: To develop skills and a sound knowledge of the sport. REQUIRED TEXT: Sport Series by William C. Brown. TYPICAL WEEKLY ASSIGNMENT: Text will be used as a reference to prepare for final exam. EXAMS: A non-comprehensive final. Other quizzes planned. Student evaluation (objective). Instructor's subjective evaluation of student's performance and participation. GRADING PHILOSOPHY: Skill Tests - 45%; Participation - 40%; and Final Exam - 15%. TENTATIVELY SCHEDULED FOR: All Terms.

PHYSICAL EDUCATION 270: FOLK, SQUARE, SOCIAL DANCE

PROFESSOR: Linda L. Linnon. Office hours per week: By appointment.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 24 majors. THEME OF COURSE: To learn basic folk, square and social dance steps and patterns. REQUIRED TEXT: Dance A While by Harris, Pittman, and Waller. TYPICAL WEEKLY ASSIGNMENTS: 15 pages of reading. EXAMS: Midterm and a non-comprehensive final; 1 quiz per week; student evaluation (objective). OTHER COURSE REQUIREMENTS: An opportunity to learn teaching skills through practicum situations. GRADING PHILOSOPHY: Instructor's subjective evaluation of skill; Skill and Participation - 50%, Midterm and Final - 20%, Methods - 20%, Quizzes - 10%.

PHYSICAL EDUCATION 380: ELEMENTARY SCHOOL ACTIVITIES

PROFESSOR: Linda L. Linnon. Office hours per week: By appointment.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 24 majors. THEME OF COURSE: The practical experience and the theoretical study of selected activities in physical education for elementary school children. REQUIRED TEXT: Physical Education for Children by Halsey-Porter. TYPICAL WEEKLY ASSIGNMENTS: 10 pages of reading. EXAMS: 1 midterm and a non-comprehensive final. Tests or quizzes on assigned readings. OTHER COURSE REQUIREMENTS: Practicum experiences in local schools. GRADING PHILOSOPHY: Subjective evaluation; Participation - 25%, Methods - 55%, Midterms and Final - 15%, and Quizzes - 5%.

PHYSICAL SCIENCE 7: PHYSICAL SCIENCE

PROFESSORS: Dr. Peter Ostrander and Dr. David Binnie. Office hours per week: By appointment.

COURSE FORMAT: Lectures. ENROLLMENT: 40 students per section, predominantly non-majors. THEME OF COURSE: Basic principles, applications, and history of physical science is presented without mathematics. Important topics include: motion, energy, wave motion, light modern physics. REQUIRED TEXT: Conceptual Physics by Hewitt. TYPICAL WEEKLY ASSIGNMENT: Read 30 pages in text. EXAMS AND PAPERS: No midterm, no final exam; weekly quizzes; 2 papers approximately 6-10 pages in length on topic of student's choice in physics or astronomy. Independent project required for grade of "A" -- must involve some experimental work. GRADING PHILOSOPHY: Based on quizzes, reports, project, and attendance. Grade scale: A - 90%; B - 80%; C - 70%; D - 60%. Papers are graded primarily on the basis of content, organization and clarity. Papers should include list of references. TENTATIVELY SCHEDULED FOR: Fall Term. May not be scheduled by students who have received credit for Physics 201 or 215.

PHYSICS 150: TECHNICAL PHYSICS

PROFESSORS: Dr. Peter Ostrander and Dr. David Binnie. Office hours per week: 15.

COURSE FORMAT: Lectures, labs. ENROLLMENT: 18 students per section, predominantly non-majors. THEME OF COURSE: Mechanics, heat, wave motion. Student should be able to understand and apply principles to realistic situations. REQUIRED TEXT: Modern Technical Physics, 2nd Edition, by Beiser. TYPICAL WEEKLY ASSIGNMENTS: One problem set, 30 pages of reading, 1 lab report. EXAMS: No midterm or final. One short problem five quizzes. GRADING PHILOSOPHY: 10 point grading scale. Quizzes - 60%, Lab - 25%, Homework - 10%, Attendance - 5%. May vary with term and instructor.) TENTATIVELY SCHEDULED FOR: Winter Term and Spring Term. PREREQUISITE OR CONCURRENT: Math 801. Designed for associate degree programs.

PHYSICS 151: TECHNICAL PHYSICS

PROFESSOR: Dr. Peter Ostrander and Dr. David Binnie. Office hours per week: 15.

COURSE FORMAT: Lectures, labs. ENROLLMENT: 18 students per section, predominantly non-majors. THEME OF COURSE: Topics include: light, optics, heat, electricity and magnetism. The student should be able to understand and apply principles in class. REQUIRED TEXT: Modern Technical Physics, 2nd Edition, by Beiser. TYPICAL WEEKLY ASSIGNMENTS: 1-2 problem assignments, 25 pages of reading, 1 lab report. EXAMS: No midterm or finals, 5 quizzes (short problem). GRADING PHILOSOPHY: 10 point grading scale. Quizzes - 60%, Lab - 25%, Homework - 10%, and Attendance - 5%. (May vary with term and instructor.) TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Physics 150. Designed for associate degree programs.

PHYSICS 201: GENERAL PHYSICS

PROFESSORS: Dr. Peter Ostrander and Dr. David Binnie. Office hours per week: 20.

COURSE FORMAT: Lectures. ENROLLMENT: 30 students per section, majors and non-majors. THEME OF COURSE: mechanics, energy, Newton's Laws, rotation, momentum. Student should gain fundamental understanding and be able to apply knowledge of mechanics. REQUIRED TEXT: Physics by Tipler. TYPICAL WEEKLY ASSIGNMENT: 25 pages of reading, 2 problem sets. EXAMS Three exams, two quizzes (short problem). GRADING PHILOSOPHY: A 10 point grading scale is used. Exams - 60%, Quizzes and Homework - 40%. (May vary with term and instructor.) TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Math. 62.

PHYSICS 202: GENERAL PHYSICS

PROFESSORS: Dr. David Binnie and Dr. Peter Ostrander. Office hours per week: 20.

COURSE FORMAT: Lectures, labs. ENROLLMENT: Majors and non-majors. THEME OF COURSE: Electricity and magnetism. Student should be able to understand and apply fundamental principles in lecture and laboratory. REQUIRED TEXT: Physics by Tipler. TYPICAL WEEKLY ASSIGNMENTS: 25 pages of reading, 2 problem sets, 1 lab report. EXAMS: 3 exams and weekly short-problem quizzes. GRADING PHILOSOPHY: A 10 point grading scale is used. Exams - 55%, Lab - 25%, Quizzes and Homework - 20%. (May vary with term and instructor.) TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITE: Physics 201.

PHYSICS 203 or 204: GENERAL PHYSICS

PROFESSORS: Dr. Peter Ostrander and Dr. David Binnie. Office hours per week: 20.

COURSE FORMAT: Lectures (203), Lectures and labs (204). ENROLLMENT: 18 students per section, majors and non-majors. THEME OF COURSE: Wave motion, heat, sound, light, modern physics. Student should be able to explain and apply basic principles in lab and lecture. REQUIRED TEXT: Physics by Tipler. TYPICAL WEEKLY ASSIGNMENTS: 25 pages of reading, 2 problem sets, 1 lab report (204). EXAMS: Three exams, bi-weekly short problem quizzes. GRADING PHILOSOPHY: A 10 point grading scale: Physics 203; Exams - 60%, Quizzes and Homework - 40%. Physics 204; Exams - 45%, Lab - 25%, Quizzes and Homework - 30%. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Physics 202.

PHYSICS 215: INTRODUCTORY PHYSICS

PROFESSORS: Dr. Peter Ostrander and Dr. David Binnie. Office hours per week: 15.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 20-30 students per section, predominantly non-majors. THEME OF COURSE: Mechanics, wave motion, and heat. A student should gain understanding of principles and be able to apply them to realistic situations in lecture and lab classes. Non-calculus in orientation. REQUIRED TEXT: College Physics by Miller. TYPICAL WEEKLY ASSIGNMENTS: 25 pages of reading, 1-2 problem sets, 1 lab report. EXAMS: Midterm (2), final (not comprehensive), bi-weekly short-problem quizzes. GRADING PHILOSOPHY: A 10 point grading scale. (May vary with term and instructor.) TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITE: Algebra to quadratics.

PHYSICS 237: INTRODUCTION TO ATOMIC AND NUCLEAR PHYSICS

PROFESSORS: Dr. Peter Ostrander and Dr. David Binnie. Office hours per week: 15.

COURSE FORMAT: Lectures. ENROLLMENT: 20 mixed majors. THEME OF COURSE: A study of modern physics including relativity, quantum, mechanics, atoms, nuclear theory and solid state physics. REQUIRED TEXT: Elementary Modern Physics by Arya. TYPICAL WEEKLY ASSIGNMENTS: 35 pages of reading and 1 problem set. EXAMS: 2 exams and final exam. GRADING PHILOSOPHY: A 10 point grading scale; Exams - 60%, Homework - 40%. TENTATIVELY SCHEDULED FOR: Spring Term.

PHYSICS 265: INTRODUCTORY PHYSICS

PROFESSORS: Dr. Peter Ostrander and Dr. David Binnie. Office hours per week: 15.

COURSE FORMAT: Lectures, labs. ENROLLMENT: 18 students per section, predominantly non-majors. THEME OF COURSE: Electricity and magnetism, light, modern physics. A student should gain understanding of principles and be able to apply them to realistic situations in lecture and lab classes. Non-calculus in orientation. REQUIRED TEXT: College Physics by Miller. TYPICAL WEEKLY ASSIGNMENTS: 25 pages of reading, 1-2 problem sets, 1 lab report. EXAMS: Midterm (2), final (not comprehensive), bi-weekly short-problem quizzes. GRADING PHILOSOPHY: A 10 point grading scale. (May vary with term and instructor.) TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Physics 215.

POLITICAL SCIENCE 1: AMERICAN NATIONAL GOVERNMENT (POLITICAL PROCESSES)

PROFESSOR: Dr. Marshall A. Hershberg. Office hours per week: 3 and by appointment.

COURSE FORMAT: Lectures and discussions. Format varies--"contract mode" has been used. Audio-visual materials used whenever possible. ENROLLMENT: 35 majors and non-majors. THEME OF COURSE: This is an introductory course focusing on these themes in American politics: nature of government and politics; philosophical and historical development of the American political system; formation and development of public opinion and role of mass media; political parties and elections; interest groups; Presidency; Congress; and the Supreme Court. This course is recommended for those students desiring or needing (e.g., two-year associate degree programs) one political science course, as well as for prospective political science majors. REQUIRED TEXTS: Subject to change. Check with bookstore or instructor before purchasing any materials. TYPICAL WEEKLY ASSIGNMENTS: 50-75 pages of reading and keeping current with the news for class discussion. EXAMS: 2 midterms and usually a comprehensive final. Other tests or quizzes determined by the class. PAPER: 5-8 page "Issue Analysis." This gives students an opportunity to relate course concepts and materials to an issue of their choosing. Issue Analysis integrates the different parts of the course while allowing a deeper understanding of the particular issue. GRADING PHILOSOPHY: Students' performances are judged on the basis of the exams, paper (when assigned), and class participation. Weight of Exams: 25-35% each; Paper: 10-20%; Participation: 10%. TENTATIVELY SCHEDULED FOR: All Terms.

POLITICAL SCIENCE 2: AMERICAN PUBLIC POLICY

PROFESSOR: Dr. Marshall A. Hershberg. Office hours per week: 3 and by appointment

COURSE FORMAT: Lectures, discussions, small group activities and projects, independent study, and films. ENROLLMENT: 20 majors and non-majors. THEME OF COURSE: An introduction to the study of the policy decisions of American government. A framework for the study of public policy is developed and then applied to specific issue areas, e.g., economic policy, health care, environment, foreign and defense policy. Goal is to develop some understanding of how and why particular policy decisions are made. While Pol. Sci. 1 focused on American political institutions and processes in a general way, Pol. Sci. 2 complements Pol. Sci. I by asking how those institutions and processes actually work when dealing with specific issues. REQUIRED TEXTS: Subject to change. Check with bookstore or instructor before purchasing any materials. An Introduction to the Study of Public Policy by Charles O. Jones, The Politics of Policy-Making in Foreign and Defense Affairs by Hilsman, and The Politicized Economy by Best and Connolly. TYPICAL WEEKLY ASSIGNMENTS: 50-60 pages of reading. EXAMS AND PAPERS: 1 midterm exam and a non-comprehensive final. 1 short paper (3-5 pages) to see how a public problem is defined in mass media and in government.

POLITICAL SCIENCE 2: AMERICAN PUBLIC POLICY (CONT'D)

A longer paper (5-10 pages) to integrate course and to test specific propositions about policy-making in an issue area of interest to the student. A field trip to Washington, D.C., is being considered. GRADING PHILOSOPHY: Varies, but in 1978 grading was: Tests - 30% each; Short Paper - 10%; Longer Paper - 15%; Participation in small group discussions and in general class discussion - 15%. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Pol.Sci. 1. (Pol.Sci. 1 and Pol.Sci. 2 satisfy sequence requirements in engineering and other programs.)

POLITICAL SCIENCE 3: GOVERNMENT AND POLITICS IN MODERN SOCIETY

PROFESSOR: Dr. Marshall A. Hershberg. Office hours per week: 3 and by appointment.

COURSE FORMAT: Lectures, discussions, small group discussions, and A-V materials. ENROLLMENT: 25-35 majors. THEME OF COURSE: Serves as an introduction to the discipline and concepts of political science for prospective majors. Topics included are nature and purposes of politics and government; political socialization; power and authority; public opinion; political parties and interest groups; significance of political ideology; functions of political executives, legislatures, and judiciaries. Illustrations from both democratic and non-democratic societies are used. Discussion of different sub-areas of political science (e.g., American politics, international relations, pol. philosophy, etc.) is held. REQUIRED TEXTS: Subject to change. Check with bookstore or the instructor before purchasing any materials. The Governing of Men by Austin Ranney and Heresies Right and Left by R.M. Christenson. TYPICAL WEEKLY ASSIGNMENTS: 50-75 pages of reading. EXAMS AND PAPERS: 2 midterms and a final. Quizzes are determined by the particular class. GRADING PHILOSOPHY: Grading is based on tests, 30-35% each, and on participation in class discussions and in small group activities when assigned, approximately 10%. PREREQUISITE: None. However, students desiring only one political science course should take Pol.Sci. 1, not Pol.Sci. 3.

POLITICAL SCIENCE 14: INTERNATIONAL RELATIONS (WORLD POLITICS)

PROFESSOR: Dr. Marshall A. Hershberg. Office hours per week: 3 and by appointment.

COURSE FORMAT: Lectures, discussions, small group discussions and analysis of world events, simulation game, and A-V materials. ENROLLMENT: 15-25 majors and non-majors. THEME OF COURSE: An introduction to international relations, attempting to give students a framework for analyzing the behavior of nation-states. Themes: the idea of "politics" among nations; nature and development of the nation-state; nationalism; relationships between domestic politics and foreign policy; elements of national power; diplomacy; clash of interests and goals among nations; international law and organization; international political change. REQUIRED TEXTS: Subject to change. Check with bookstore or instructor prior to purchasing any books. International Politics by Ivo Duchacek and Nations in Darkness by

POLITICAL SCIENCE 14: INTERNATIONAL RELATIONS (CONT'D)

Stoessinger (3rd Edition). TYPICAL WEEKLY ASSIGNMENTS: Approximately 50-70 pages of reading. Students are expected to keep abreast of world events to bring into class discussions. EXAMS AND PAPERS: 1 or 2 midterms and a comprehensive final; quizzes - depend on class. Occasionally a paper is assigned to analyze a country's interests and power; it is sometimes connected with a diplomatic simulation game. Length averages between 5-10 pages. GRADING PHILOSOPHY: Grading is based on quizzes, small group discussions or simulation (when assigned) and participation. Usually, quizzes - 25-35%; discussions or simulation - 15-20%; participation - 10%. TENTATIVELY SCHEDULED FOR: Fall Term.

POLITICAL SCIENCE 20: COMPARATIVE POLITICS-WESTERN EUROPE (GOVERNMENTS OF WESTERN EUROPE)

PROFESSOR: Dr. Marhsall A. Hershberg. Office hours per week: 3 and by appointment.

COURSE FORMAT: Lectures, discussions, small group discussions and films. ENROLLMENT: 15-25 majors and non-majors. THEME OF COURSE: This introduction to comparative politics follows a general framework of analysis and is applied to politics in England, France, West Germany, and the U.S.S.R. Topics covered for each country: social-economic foundations; government institutions; parties; public opinion and interest groups. REQUIRED TEXTS: Subject to change. Check with bookstore or instructor prior to purchasing materials. Major Political Systems: Europe by Macridis and Ward. TYPICAL WEEKLY ASSIGNMENT: Approximately 50-70 pages of reading. Students are expected also to keep abreast of political developments in these countries to enhance class discussion. EXAMS AND PAPERS: 1 midterm for each country studied and a final, usually comprehensive. Quizzes will be determined by the particular class. Occasionally a paper is assigned to analyze and explain a political event in a particular country covered in the course. GRADING PHILOSOPHY: Grades are based on exams and tests (approximately 20-35% each) and participation (approximately 10%) and the paper (when assigned) (approximately 15-20%). This varies each term. TENTATIVELY SCHEDULED FOR: Winter Term.

PSYCHOLOGY 2: PSYCHOLOGY

PROFESSOR: Dr. Jamey L. Judge. Office hours per week: 3.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 35 majors and non-majors. THEME OF COURSE: This introductory course deals primarily with the study of human behavior. Topics include biological bases of behavior, learning, memoty motivation, emotion, abnormal behavior, psychotherapy, and social behavior. REQUIRED TEXTS: Psychology of Being Human by McNeil and Tubin and accompanying workbook. TYPICAL WEEKLY ASSIGNMENTS: Students are required to keep a journal, one entry for each chapter. EXAMS: 5 tests, each covering 2 chapters, and 10 short quizzes, 1 for each chapter. GRADING PHILOSOPHY: Grade determined: Texts-5/7 of grade; Journal-1/7 of grade; Quizzes- 1/7 of grade. TENTATIVELY SCHEDULED FOR: Fall Term and Winter Term.

PSYCHOLOGY 2: PSYCHOLOGY

PROFESSOR: Alvin Scheetz. Office hours per week: By appointment.

COURSE FORMAT: Lectures. ENROLLMENT: 30 majors and non-majors. THEME OF COURSE: Introduction to psychology with the approach to make each student aware how psychology touches almost every facet of his/her life. REQUIRED TEXTS: To be selected. TYPICAL WEEKLY ASSIGNMENTS: 50 pages of reading and approximately one exrecise per week. EXAMS: 1 midterm and a comprehensive final. Approximately 1 quiz every fourth class metting on material covered and assigned. PAPER: One two-page paper on selected topics by students to acquaint them with the scope of psychology reference available in the library. GRADING PHILOSOPHY: All quizzes-1/3 of grade; midterm-1/3 of grade; final-1/3 of grade.

PSYCHOLOGY 13: INTRODUCTION TO DEVELOPMENTAL PSYCHOLOGY

PROFESSOR: Dr. Gary Gallucci. Office hours per week: 15.

COURSE FORMAT: Discussions. ENROLLMENT: 15-20 majors and non-majors. THEME OF COURSE: Developmental psychology emphasizing characteristics of human development from birth to death; learning and motivation, and emphasis on theories of Piaget. REQUIRED TEXTS: Of Children by Guy Lefroncois. TYPICAL WEEKLY ASSIGNMENTS: 50-60 pages of reading. EXAMS AND PAPERS: 3 exams of equal weight. Research Project. GRADING PHILOSOPHY: Grade is based upon class participation, 3 written exams, paper and research project. TENTATIVELY SCHEDULED FOR: Winter Term and Summer Term. PREREQUISITE: Psy. 2.

PSYCHOLOGY 15: ELEMENTARY STATISTICS IN PSYCHOLOGY

PROFESSOR: Dr. Jamey L. Judge. Office hours per week: 3.

COURSE FORMAT: Lectures, discussions, and labs. ENROLLMENT: 10-15 majors and non-majors. THEME OF COURSE: Course will cover both descriptive and inferential statistics. REQUIRED TEXT: Understanding Statistics by Wright. TYPICAL WEEKLY ASSIGNMENTS: 25 pages of reading. Problems will be assigned for each class session. EXAMS: 4 exams and homework assignments. GRADING PHILOSOPHY: Grade will be based on exams-4/5 and homework-1/5. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Psy. 2.

PSYCHOLOGY 21: CURRENT APPLICATIONS OF PSYCHOLOGY

PROFESSOR: Dr. Jamey L. Judge. Office hours per week: 3.

COURSE FORMAT: Lectures and discussion. ENROLLMENT: 20 majors and non-majors. THEME OF COURSE: Students learn about behavior modification techniques and how to apply these to the modification of some of their own habits: e.g., smoking, studying, spelling, nail biting, etc. Students are required to read one of the five novels suggested and study the future use of behavioral control techniques as projected by the author. REQUIRED TEXTS: Self-Directed Behavior by Watson and Tharp. One of these novels: Walden II, Skinner; Brave New World, Huxley; Island, Huxley; A Clockwork Orange, Burgess; or 1984, Orwell. Other library readings. TYPICAL WEEKLY ASSIGNMENTS: 40-50 pages of reading. EXAMS AND PAPERS: 2 exams on Self-Directed Behavior. One paper/project Self-modification project. Students are required to plan a program to modify the frequency of a behavior, one of their behaviors and then carry this through and write a report. GRADING PHILOSOPHY: Participation in class, test grades, paper/project. Paper/project will count the most. TENTATIVELY SCHEDULED FOR: Fall Term. PREREQUISITE: Psy. 2.

PSYCHOLOGY 102: RESEARCH METHODS IN PSYCHOLOGY

PROFESSOR: Dr. Jamey L. Judge. Office hours per week: 3.

COURSE FORMAT: Lectures, discussions, and labs. ENROLLMENT: 5-10 majors. THEME OF COURSE: Student will learn about research in social psychology. REQUIRED TEXT: Research Methods in Social Relations by Selltiz, Wrightsman, and Cook. TYPICAL WEEKLY ASSIGNMENTS: 60 pages of reading. EXAMS: 3 exams and 5 quizzes. OTHER COURSE REQUIREMENTS: 1 research project and 1 lab report. GRADING PHILOSOPHY: Test-3/5 of grade; report-1/5 of grade; quizzes-1/5 of grade. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Psy. 2 and Stat. 200.

PSYCHOLOGY 170: PSYCHOLOGY OF WOMEN

PROFESSOR: Dr. Jamey L. Judge. Office hours per week: 3.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25 majors and non-majors, co-education. THEME OF COURSE: Everyone knows men and women differ from each other. But how do they differ? What is the extent of these differences? And most important, what effects do these differences have on the behavior of women and men? Psychology 170 will deal directly with these questions. Topics to be explored include: the biology of sex differences, the history of the status of women, the roles of men and women in other societies, and the changing attitudes toward sexuality, marriage, motherhood, male-female relations, and working owmen. REQUIRED TEXTS: Sex, Gender and Society by A. Oakley, The Behavior of Women and Men by K. Deaux, and Women: A Feminist Perspective by J. Freeman. TYPICAL WEEKLY ASSIGNMENTS: Approximately 50-75 pages of reading material. EXAMS AND PAPERS: 3 take-home essay exams. One paper (7-10 pages). In conjunction with the research paper, students will present their reports to the class. Students will be required to keep a journal of their thoughts, reactions, and observations. GRADING PHILOSOPHY: The grade will be based 1/3 on the 3 take-home exams, 1/3 on the journal (graded twice), and 1/3 on the final paper and presentation. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Psy. 2.

QUANTITATIVE BUSINESS ANALYSIS 101: ELEMENTARY BUSINESS STATISTICS

PROFESSOR: Richard Cupelli. Office hours per week: 7.

COURSE FORMAT: Lectures, discussions, and problems. ENROLLMENT: 30 majors. THEME OF COURSE: Introduction to statistical methods and techniques as applied to business and economics and to fundamental concepts in development of critical judgement and decision-making, using quantitative tools. REQUIRED TEXTS: Subject to change. Check with bookstore or instructor prior to purchasing books. TYPICAL WEEKLY ASSIGNMENTS: 30 pages of reading a week and problems assigned for each class session. EXAMS: 3 midterms, a non-comprehensive final, and homework. GRADING PHILOSOPHY: 4 Exams - 80%, Homework - 10%, and Class Contribution - 10%. TENTATIVELY SCHEDULED FOR: Fall Term. (A math course and a fourth-term standing are recommended before taking this course.)

QUANTITATIVE BUSINESS ANALYSIS 101: ELEMENTARY BUSINESS STATISTICS

PROFESSOR: Donald Leaphart. Office hours per week: 3.

COURSE FORMAT: Lectures. ENROLLMENT: 30 majors. THEME OF COURSE: To develop knowledge of the collection, tabulation, measurement, presentation, and interpretation of quantitative material as it is commonly used in business. REQUIRED TEXT: Fundamental Statistics for Business and Economics by Neter, Neter, Wasserman, et al. TYPICAL WEEKLY ASSIGNMENTS: 30-40 pages of reading. EXAMS: 1 midterm exam and a non-comprehensive final. Other tests and quizzes are given every two weeks. Homework is problem solving. GRADING PHILOSOPHY: Grade is based on points earned on examinations, quizzes, and homework. TENTATIVELY SCHEDULED FOR: Summer (Assoc.) Terms. (A math course and a fourth-term standing are recommended before taking this course.)

QUANTITATIVE BUSINESS ANALYSIS 102: ELEMENTARY BUSINESS STATISTICS

PROFESSOR: Richard Cupelli. Office hours per week: 7.

COURSE FORMAT: Lectures and problems. ENROLLMENT: 25 majors. THEME OF COURSE: Statistical inference, hypothesis testing, ANOVA sampling, linear regression, estimation, forecasting. REQUIRED TEXT: Statistical Methods for Business and Economics by Pfaffenberger and Patterson. TYPICAL WEEKLY ASSIGNMENTS: 20-30 pages of reading a week and problems assigned for each class session. EXAMS: 2 midterms, and a non-comprehensive final, and homework. GRADING PHILOSOPHY: 3 Exams - 90% and Homework and Class Contribution - 10%. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Q.B.A. 101.

REAL ESTATE 800: REAL ESTATE PRINCIPLES

PROFESSOR: Donald L. Shoaf, Jr. Office hours per week: By appointment

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25 majors. THEME OF COURSE: Basic knowledge of real estate theory, such as social impact, market analysis, contracts, deeds, mortgages, real property insurance, real estate taxes, financing, brokerage, planning. REQUIRED TEXT: Real Estate Principles by Unger. TYPICAL WEEKLY ASSIGNMENTS: 35-40 pages of reading. EXAMS: 2 midterms and a comprehensive final. Other quizzes are planned dependent upon the importance of the material covered. OTHER COURSE REQUIREMENTS: Field trip to the Fayette County Court House. GRADING PHILOSOPHY: 50%--all quizzes, midterms, and class participation; 50%--final exam. TENTATIVELY SCHEDULED FOR: Winter Term.

REAL ESTATE 810: REAL ESTATE SALES

PROFESSOR: Donald L. Shoaf, Jr. Office hours per week: By appointment.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 25 majors. THEME OF COURSE: Concept of land, concept of home ownership, listing, selling, advertising real estate, legal descriptions, transfer of title, closing costs, leases, appraising, sub-dividing. REQUIRED TEXT: Modern Real Estate Practice in Pennsylvania by Bellairs, Helsel, Poorman. TYPICAL WEEKLY ASSIGNMENTS: 25-30 pages of reading. EXAMS: 2 midterms, a comprehensive final, and quizzes dependent upon nature of contracts. OTHER COURSE REQUIREMENTS: Field trip to the Fayette County Court House. GRADING PHILOSOPHY: 50% all quizzes, midterms, and class participation; 50%--final exam. TENTATIVELY SCHEDULED FOR: Spring Term.

SOCIAL SCIENCE 1: THE URBANIZATION OF MAN: A SOCIAL SCIENCE PERSPECTIVE

PROFESSOR: Howard E. Dantzler, Sr. Office hours per week: 9.

COURSE FORMAT: Lectures, discussions, labs, and other resources. ENROLLMENT: 15-35 majors and non-majors. THEME OF COURSE: The course emphasizes the evolution of social concepts as the precursor to the development of social institutions, the growing interdependence of man through urbanization, population, technology, rationalization, culturalization, ideologization, etc. REQUIRED TEXTS: The Ancient City by Fustel de Conlanges, Medieval Cities by Henry Pirenne, and The Making of an Economic Society by Robert Heilbroner. TYPICAL WEEKLY ASSIGNMENTS: 55 pages of reading. EXAMS: None. PAPERS: Three reports, based on an essential theme in each book, are required (2-5 pages). One 15-page term paper. GRADING PHILOSOPHY: Book Reports - 45%; Term Paper - 30%; Level of Seriousness Displayed in Course - 25%. TENTATIVELY SCHEDULED FOR: Spring Term. (A course in political science, sociology, psychology, economics, or history is recommended before taking this course.)

SOCIAL SCIENCE 2: CONTEMPORARY MAN AND SOCIETY

PROFESSOR: Howard E. Dantzler, Sr. Office hours per week: 9.

COURSE FORMAT: Lectures, discussions, labs, and other resources. ENROLLMENT: 15-35 majors and non-majors. THEME OF COURSE: Emphasis is placed on contemporary issues in relation to history, sociology, psychology, economics, and political science. REQUIRED TEXTS: Poverty in America by Ferman, Limits of American Capitalism by Heilbroner, Culture and Poverty by Valentine, and Man Child in the Promised Land by Brown. TYPICAL WEEKLY ASSIGNMENTS: 55 pages of reading. EXAMS: None. PAPERS: Four reports, based on an essential theme in each book, are required (2-5 pages). One 15-page term paper. GRADING PHILOSOPHY: Book Reports - 45%; Term Paper - 30%; Level of Seriousness Displayed in Course - 25%. TENTATIVELY SCHEDULED FOR: Summer Term. (A course in political science, sociology, psychology, economics or history is recommended before taking this course.)

SOCIOLOGY 1: INTRODUCTORY SOCIOLOGY

PROFESSOR: Howard E. Dantzler, Sr. Office hours per week: 3.

COURSE FORMAT: Lectures, discussions, and labs. ENROLLMENT: 15-45 majors and non-majors. THEME OF COURSE: To introduce the student to the scope and character of social phenomenon, both from the perspective of the authorities of the field as well as from his or her individual perspective. The social actor is encouraged to become aware of his or her attitudes and bases for those social attitudes. REQUIRED TEXT: Sociology by David Popenoe. TYPICAL WEEKLY ASSIGNMENTS: 45 pages of reading. EXAMS AND PAPERS: 1 midterm and a non-comprehensive final, one 15-page term paper, written according to Campbell's Guide to Thesis Writing. GRADING PHILOSOPHY: Grade is based on: Midterm - 25%, Final - 25%, Term Paper - 30%, Overall Performance including Attendance, Academic Seriousness, and Rational Discussion - 20%.

SOCIOLOGY 3: INTRODUCTORY SOCIAL PSYCHOLOGY

PROFESSOR: Howard E. Dantzler, Sr. Office hours per week: 3.

COURSE FORMAT: lectures, discussions and labs. ENROLLMENT: 15-50 majors and non-majors. THEME OF COURSE: To introduce the student, as far as is possible, to the interaction processes of human beings emphasizing the processes that take place at the conceptual level based on the past, present and anticipated future experiences that have bearing on the actor's immediate actions in the immediate experience. REQUIRED TEXT: Social Psychology by Muzafer Sherif. TYPICAL WEEKLY ASSIGNMENT: 50 pages of reading from text. EXAMS AND PAPERS: 1 midterm and a non-comprehensive final. Optional papers are permitted, either duplication of an experiment observed in the text for analytical purposes or a relevant research paper following Campbell's Guide to Thesis Writing. GRADING PHILOSOPHY: Midterm - 25%; Final - 25%; Paper - 30%; Overall Academic Seriousness - 20%. TENTATIVELY SCHEDULED FOR: Spring Term. (Soc. 1 or Psy. 2 are recommended before taking this course.

SOCIOLOGY 5: SOCIAL PROBLEMS

PROFESSOR: Howard E. Dantzler, Sr. Office hours per week: 3.

COURSE FORMAT: Lectures, discussions, and labs. ENROLLMENT: 25-50 majors and non-majors. THEME OF COURSE: To familiarize students with the concepts of social problems, theories relating to major contemporary social problems and the difference between a social problem and a sociological problem. Students are expected to sharpen their awareness of shallow and inadequate explanations of complex social problems. REQUIRED TEXT: Contemporary Social Problem by Merton and Nisbet. TYPICAL WEEKLY ASSIGNMENT: 50 pages of reading. EXAMS AND PAPERS: 1 midterm and a non-comprehensive final. One term paper of 15 pages written according to Campbell's Guide to Thesis Writing. GRADING PHILOSOPHY: Midterm - 25%; Final - 25%; Term Paper - 30% and Academic Seriousness - 20%. TENTATIVELY SCHEDULED FOR: Fall Term. (Fourth-term standing is recommended.)

SOCIOLOGY 12: CRIMINOLOGY

PROFESSOR: Howard E. Dantzler, Sr. Office hours per week: 3.

COURSE FORMAT: Lectures, discussions, and labs. ENROLLMENT: 25 majors and non-majors. THEME OF COURSE: To examine the nature of crime in relation to the bases and ideology of the laws, theories of the causation of crime in relation to the formation of remedies for crime based on available theories. REQUIRED TEXT: Criminology by Sutherland and Cressey. TYPICAL WEEKLY ASSIGNMENTS: 45 pages of reading. EXAMS AND PAPERS: 1 midterm, final, and one 15-page term paper written according to Campbell's Guide to Thesis Writing. GRADING PHILOSOPHY: Midterm - 25%; Final - 25%; Term Paper - 30% and Overall Academic Seriousness - 20%. TENTATIVELY SCHEDULED FOR: Winter Term. (Soc. 1 or Soc. 5 are recommended before thaking this course.)

SOCIOLOGY 13: JUVENILE DELINQUENCY

PROFESSOR: Howard E. Dantzler, Sr. Office hours per week: 9.

COURSE FORMAT: Lectures, discussions, labs, and other resources. ENROLLMENT: 15-35 majors and non-majors. THEME OF COURSE: The course emphasizes the environmental factors that contribute to the development and to the definition, reaction, and treatment of deviates in our society. Interaction between the individual and environment is the foci. REQUIRED TEXT: Deviance and Respectability by Jack Douglas. TYPICAL WEEKLY ASSIGNMENTS: 50 pages of reading. EXAMS: Midterm and a non-comprehensive final. PAPER: One 15-page term paper (following Campbell's Guide), an analysis of research data and survey. OTHER COURSE REQUIREMENTS: Oral presentation may be required at end of term. Field trips - optional. GRADING PHILOSOPHY: 2 Exams - 50%; Term Paper - 30%; Level of Seriousness Displayed for the Course - 20%. TENTATIVELY SCHEDULED FOR: Spring Term.

SOCIOLOGY 19: INTERGROUP RELATIONS

PROFESSOR: Howard E. Dantzler, Sr. Office hours per week: 9.

COURSE FORMAT: Lectures, discussions, labs, and other resources. ENROLLMENT: 15-25 majors and non-majors. THEME OF COURSE: The course focuses upon the formation of ethnic attitudes, consequences, bases for such attitudes, means of overcoming negative racism in a highly competitive society. REQUIRED TEXT: Race and Minority Relations by Simpson and Yinger. TYPICAL WEEKLY ASSIGNMENTS: 50 pages of reading. Problem sets are required each week. (Observation of a prejudice act in everyday life.) EXAMS: None. PAPER: One 15-page paper presenting a scientific analysis of a local survey concerning racial or ethnic attitudes. OTHER COURSE REQUIREMENT: Students are required to maintain good attendance. GRADING PHILOSOPHY: Participation - 50%; Research Paper - 30%; Level of Seriousness displayed throughout work - 20%.

SOCIOLOGY 23: POPULATION AND POLICY ISSUES

PROFESSOR: Howard E. Dantzler, Sr. Office hours per week: 9.

COURSE FORMAT: Lectures, discussions, and other resources. ENROLLMENT: 15-25 majors and non-majors. THEME OF COURSE: To understand concepts of demographic problems in relation to levels of development of people in the world and the feasibility of the developmental model in dealing successfully with demographic problems of the world. REQUIRED TEXT: Population Dynamics by Ralph Thomlinson. TYPICAL WEEKLY ASSIGNMENTS: 50 pages of reading. EXAMS: 1 midterm and a final. PAPER: A 15-page term paper on the analysis of a population problem is required. OTHER COURSE REQUIREMENT: Oral presentation of the paper is optional. GRADING PHILOSOPHY: Exams - 60%; Research Paper - 30%; Seriousness - 10%. TENTATIVELY SCHEDULED FOR: Spring Term.

SPANISH 1: ELEMENTARY SPANISH

PROFESSOR: Carol Westerman. Office hours per week: By appointment.

COURSE FORMAT: Lectures, discussions, labs, exercises. ENROLLMENT: 15-25 non-majors. THEME OF COURSE: Examination of grammatical structure of Spanish in simple sentences (present tense). Practice in reading, writing, speaking, and listening. REQUIRED TEXTS: Beginning College Spanish by John B. Dalbor and accompanying workbook. TYPICAL WEEKLY ASSIGNMENTS: One unit in the book. EXAMS AND PAPERS: 1 quiz per week, 1 midterm, and a comprehensive final. GRADING PHILOSOPHY: Grades are based on quizzes, major tests, class preparation, attendance. TENTATIVELY SCHEDULED FOR: Fall Term.

SPANISH 2: ELEMENTARY SPANISH

PROFESSOR: Carol Westerman. Office hours per week: By appointment.

COURSE FORMAT, ENROLLMENT, THEME OF COURSE, REQUIRED TEXTS, TYPICAL WEEKLY ASSIGNMENTS, EXAMS, and GRADING PHILOSOPHY are the same as those listed for Spanish 1. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Spanish 1.

SPANISH 3: INTERMEDIATE SPANISH

PROFESSOR: Carol Westerman. Office hours per week: By appointment.

COURSE FORMAT: Lectures, discussions, labs, exercises. ENROLLMENT: 15-25 non-majors. THEME OF COURSE: Further examination of Spanish grammar and development of active and passive language skills. REQUIRED TEXTS: Beginning College Spanish by John Dalbor, a cultural reader, and a modern play. TYPICAL WEEKLY ASSIGNMENTS: One chapter. EXAMS: 4 major tests. GRADING PHILOSOPHY: Grading is based on tests, class participation, attendance, written assignments, and general grasp of the material. TENTATIVELY SCHEDULED FOR: Spring Term. PREREQUISITE: Spanish 2.

SPANISH 130: IBERIAN CIVILIZATION (IN ENGLISH)

PROFESSOR: Carol Westerman. Office hours per week: By appointment

COURSE FORMAT: Lectures, discussions, films, slides, recordings. ENROLLMENT: 15-25 non-majors. This course meets the requirement of a humanities elective. No knowledge of Spanish is needed. THEME OF COURSE: General historical survey of Spanish-Portuguese culture: political, economic, cultural and artistic development from the Roman period to the present. Students are encouraged to pursue reading in any area of particular interest (e.g. Spanish dance, Spanish medieval life, mining in Spain, etc.). TYPICAL WEEKLY ASSIGNMENTS: Readings from the text and from library references. Preparation of individual papers or oral reports. EXAMS AND PAPERS: Midterm and final. A 6-10 page paper on a topic related to the course in an area of interest to the student. GRADING PHILOSOPHY: The final grade will be based on these percentages: 1/3 for examinations, 1/3 for papers and reports, and 1/3 for class participation. TENTATIVELY SCHEDULED FOR: Winter Term.

SPANISH 131: IBERO_AMERICAN CIVILIZATION (IN ENGLISH)

PROFESSOR: Carol Westerman. Office hours per week: By appointment.

COURSE FORMAT: Lectures, discussions, films, slides, recordings. ENROLLMENT: 15-25 non-majors. This course meets the requirement of a humanities elective. No knowledge of Spanish is needed. THEME OF COURSE: Latin-American life from the Conquest to the present: literature, art, the indigenous heritage, and contemporary problems. TYPICAL WEEKLY ASSIGNMENTS: Reading from texts. EXAMS AND PAPERS: 1 midterm and a final; a paper related to the course; short oral reports.

SPEECH COMMUNICATION 200: EFFECTIVE SPEECH

PROFESSOR: Madeleine Boyland. Office hours per week: 6.

COURSE FORMAT: Lectures and discussions. ENROLLMENT: 24 majors and non-majors. THEME OF COURSE: Group problem solving discussion: At least twice, a student will work with a small group of classmates using oral communication to identify, define, explore, and resolve a problem of some magnitude. REQUIRED TEXT: *Small Group Discussion* by Borman and Borman. TYPICAL WEEKLY ASSIGNMENT: Research for a problem solving discussion. EXAMS: Midterms -- each discussion, a non-comprehensive final. PAPERS: 1 ten-page paper, a compiling of the findings proved through research for the first discussion. GRADING PHILOSOPHY: The two discussions are considered to be verbal examinations in that a listener can judge quite accurately the speaker's support of his statement. Discussion - 80%; Paper - 10%; Exam - 10%. TENTATIVELY SCHEDULED FOR: Fall, Winter, and Spring Terms.

SPEECH COMMUNICATION 200: EFFECTIVE SPEECH - OPTION A

PROFESSOR: John D. Sias. Office hours per week: 10.

COURSE FORMAT: Lectures, discussions, speech presentation. ENROLLMENT: 20 non-majors. THEME OF COURSE: Option A is public address, involving an examination of the public communication process, both rhetorically and via public speaking presentations. Interested students will gain an understanding of rhetorical criticism, an awareness of the communication process (both effective communication and the communication breakdown). REQUIRED TEXTS: Public Speaking As A Liberal Art by John Wilson and Carroll Arnold and a short novel. TYPICAL WEEKLY ASSIGNMENTS: 75 pages of reading. Four speeches assigned periodically during the term. EXAMS: No midterms or final. Diagnostic quizzes are given as needed to ensure student comprehension of reading material. No set number. PAPER: 1 paper approximately 20 pages in length presenting a rhetorical analysis of a published speech. GRADING PHILOSOPHY: Grades are determined by performance in speech presentation, the written outline which is completed for each speech, and the term paper. TENTATIVELY SCHEDULED FOR: All Terms.

SPEECH COMMUNICATION 200: EFFECTIVE SPEECH - OPTION E

PROFESSOR: John D. Sias. Office hours per week: 10.

COURSE FORMAT: Lectures, discussions, oral presentation. ENROLLMENT: 20 subject majors. THEME OF COURSE: Option E is taught to a class of majors in a two-year associate degree field, designed especially for a particular technical field. At present, the option is offered to Architectural Engineering Technology and the two-year Business Administration majors. Students learn communication concepts relevant to their fields. TYPICAL WEEKLY ASSIGNMENTS: 75 pages of reading per week and four exercises spread throughout the field. EXAMS: None. PAPER: One 20-page paper presenting a rhetorical analysis of a speech taken from the technical field. OTHER COURSE REQUIREMENTS: Integration of the course content with a complementary course taught within the major field (e.g. AET 830; Management 802). GRADING PHILOSOPHY: Grades are determined by performance in speech presentation, the written outline which is completed for each speech, and the term paper. TENTATIVELY SCHEDULED FOR: Winter Term - AET; Spring Term - Bus. PREREQUISITE: Acceptance into the major field course. (e.g. AET 830; Management 802).

SPEECH COMMUNICATION 212: INFORMATIVE SPEAKING

PROFESSOR: Madeleine Boyland. Office hours per week: 6.

COURSE FORMAT: Lectures and other methods. ENROLLMENT: 12-15 majors and non-majors. THEME OF COURSE: Research on topics, analysis of topics, presentation of findings by individual student. Critique by instructor and students. All work is based on research. TYPICAL WEEKLY ASSIGNMENTS: This will depend upon the topic that the student has chosen to pursue. EXAMS: 1 midterm and a non-comprehensive final. PAPER: 1 ten-page paper on the topic chosen by the student to present to class members. GRADING PHILOSOPHY: Presentation of informative topic - 80%; Paper - 10%; Exam - 10%. TENTATIVELY SCHEDULED FOR: Winter Term. PREREQUISITE: Speech Communication 200.

STATISTICS 200: ELEMENTARY STATISTICS

PROFESSOR: Melvin Breakiron. Office hours per week: 3-7.

COURSE FORMAT: Lectures and labs. ENROLLMENT: 10-15 majors and non-majors. THEME OF COURSE: Basic elementary statistics. Frequency distributions, graphs, centiles, averages, variability, standard distributions; normal curve-linear regression testing hypotheses. REQUIRED TEXT: Workbook by Downie-Heath. TYPICAL WEEKLY ASSIGNMENTS: Approximately 30 pages, about 35-40 completion and 10-12 examples. EXAMS: 1 final, 4 tests. COURSE REQUIREMENT: Lab - 1 period a week. GRADING PHILOSOPHY: Grades based on test scores. TENTATIVELY SCHEDULED FOR: Summer Term. PREREQUISITE: 2 units in algebra.

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